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Farm and Ranch REVIEW

April
1949



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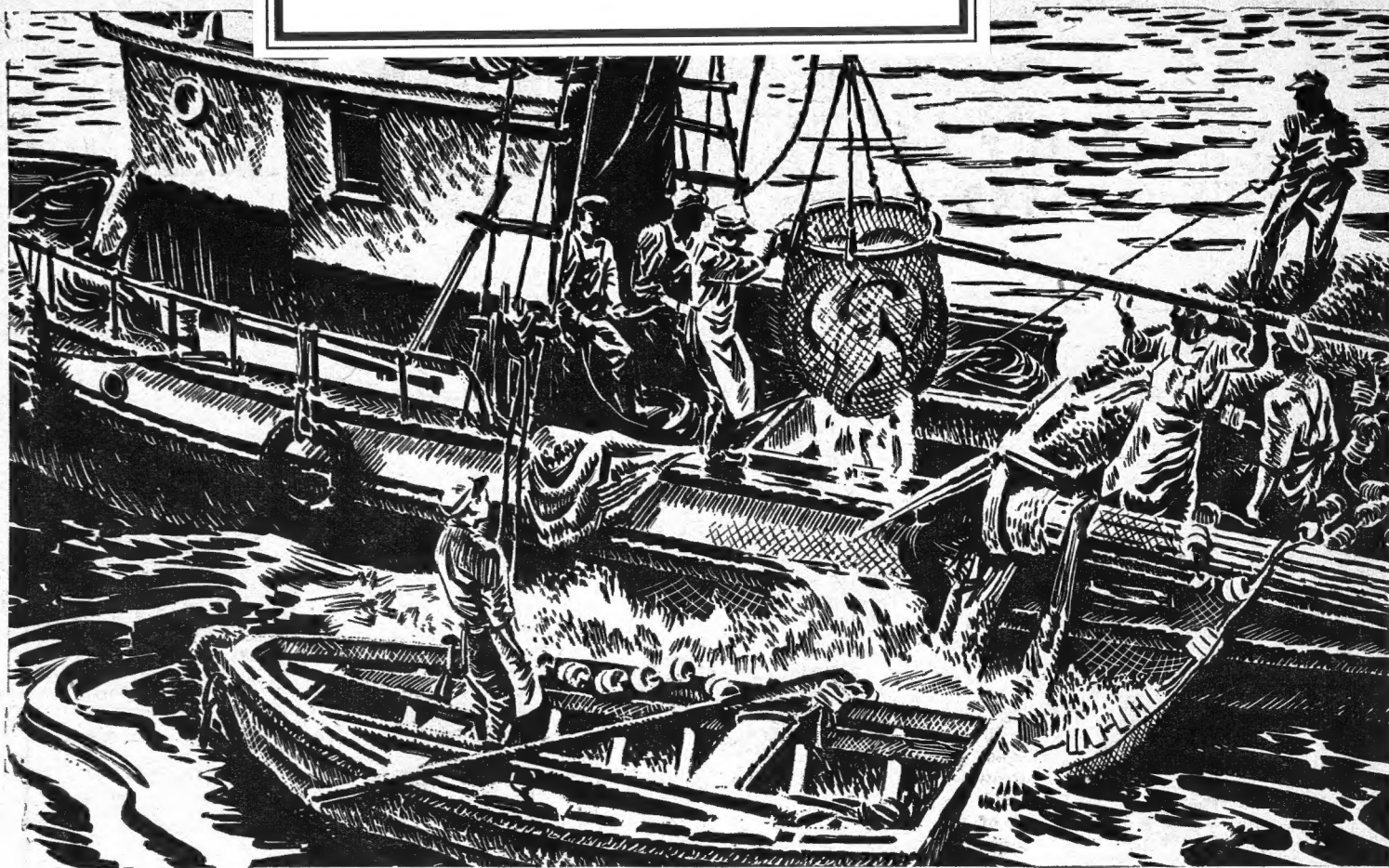
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CANADA P

S FINEST SALMON



When you taste salmon, exceptionally delicious and delicately flavoured, chances are it comes from the silver hordes spawned in the mighty Fraser and other mountain rivers of Canada's Pacific Coast.

Why Seagram's sells Canada first

This is an adaptation of one of a series of advertisements designed by The House of Seagram to promote the prestige of Canada and help sell Canadian products to the markets of the world.

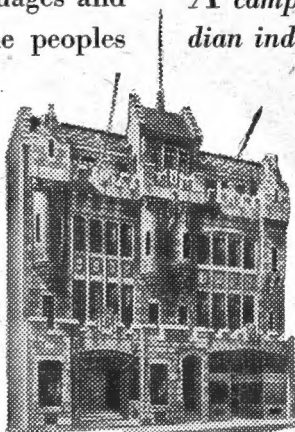
The campaign is appearing in magazines and newspapers published in various languages and circulated throughout the world. The peoples of many lands are told about the quality of Canadian products and see Canadian scenes illustrating these products.

The advertisements are in keeping with the belief of The House of Seagram that the future of each business enterprise in Canada is inextricably bound up in the future

of Canada itself; and that it is in the interest of every Canadian manufacturer to help the sale of *all* Canadian products in foreign markets.



A campaign such as this not only helps Canadian industries but also puts money in the pocket of every Canadian citizen. One dollar of every three we earn comes to us as a result of foreign trade. The more we can sell abroad the more prosperous we will be at home. It is with this objective that these advertisements are being produced and published throughout the world.



The House of Seagram

STEEL

Rounds Plate
Flats Structural
Angles Re-inforcing

PIPE

Black and Galvanized.
WATER WELL CASING
EXTRA HEAVY TUBING

Hector Machine Co. Ltd.
8th Ave. & 19th St. E., CALGARY

IODINE IN FEED

helps insure healthy livestock

Iodine is an essential element in the nutrition of farm animals. When used in formula feeds, mineral mixtures and salt blocks, Iodine helps prevent:

- Goiter.
- Interference in reproductive processes.
- Birth of weak, deformed offspring with poor life expectancy.
- Birth of hairless or almost hairless offspring.

Ask your dealer and be sure the feed products you buy contain Iodine.

Write for free booklet, "The Place of Iodine in the Nutrition of Farm Animals."

Iodine

Educational Bureau, Inc.

120 Broadway, New York 5, N. Y.
221 North LaSalle Street, Chicago 1, Ill.

WHEN WRITING THE ADVERTISERS.
PLEASE MENTION THE
FARM AND RANCH REVIEW



Grand Clean-up!

SNAP HAND CLEANER

All who work with their hands know Snap Hand Cleaner removes stubborn pore-deep dirt and grease quickly — easily — and economically. Keep SNAP by the tap.



BETTER
THAN SOAP

Buy the giant size for economy!



In the production of small fruits on the farm, many farmers like Thos. Scaife of Marquette, find that strawberries may be grown between the rows of fruit trees until the latter are well established, and attain a good height.

New growth from tree stumps

NEW growth from tree stumps cannot be expected with every species. A thicket consisting of poplars and willows may be renewed and revived by cutting off living tree trunks and stems near ground level. This is not true for pines and spruces, says John Walker, Superintendent, Forest Nursery Station, Indian Head, Sask.

In farm shelterbelts or woodlots consisting of species that react favourably, this treatment has distinct advantages, especially where coppice or low-growing thicket growth is desirable and beneficial. Where thinning out of trees may be advisable; where tops of tall trees are beginning to die; where a few fence posts are required or some fuel wood is needed; the recommended practice would be to cut off the tree a few inches to a foot or so above the surface of the ground.

The practice is regularly followed at the Forest Nursery Station, Indian Head, with plantings of poplars and willows established for the purpose of providing hardwood cutting cuttings. Every fall all growth is cut back severely. During the following season numerous vigorous stems which are ideal for preparing into cuttings develop.

For best effects from a number of ornamental plants this practice may also be applied. Branches of Amur maple, ornamental willows and tamarix which develop each year from stems which have been severely headed back, provide much richer and brighter bark colors than older branches. For the home gardener—interested in home grounds beautification—this aspect of tree and shrub management should not be overlooked.

Most fruit growers are familiar with the type of growth that takes place from tree roots where stems or trunks have been girdled by mice or rabbits, or have been severely winter killed. Strong growths readily appear when favorable conditions return in spring.

For best results, and to avoid undue weakening of roots, this heading-back operation should be completed in late winter or very early spring. In the case of Boxelder (Manitoba maple), it should be delayed until new growth is developing normally in spring, otherwise there may be considerable loss of sap from wounds.

Under certain conditions the practice of heading back trees is recommended as a means of renewing tree vigor in farm shelterbelts. Where tree roots are vigorous, dead trees are not too numerous, and where weeds are not too securely established among the trees, growth of head-

ed-back trees may be expected to be much more vigorous than growth of newly-planted trees, because well-established root systems function and support new growths from the old stumps.

Light For Sight

Daylight is to be preferred to any type of artificial light, and health experts agree that much can be done to make most rooms more suitably lighted for close work. Windows should be as near the ceiling as possible and curtain and blind arrangements should be placed so as to diffuse the light throughout the entire room. Buff, translucent shades help and the cleanliness of walls and ceilings is important in maintaining maximum reflection value of their surfaces.

Farm and Ranch Review

VOL. XLV. No. 4

CALGARY, APRIL, 1949

Founded in 1905 by
Chas. W. Peterson

James H. Gray, Editor
Martha Olson, Home Editor

P. Peterson,
Advertising Manager
EASTERN ADVERTISING OFFICES
414 Metropolitan Bldg.,
Toronto, Ont.

W. H. Peirce, Representative

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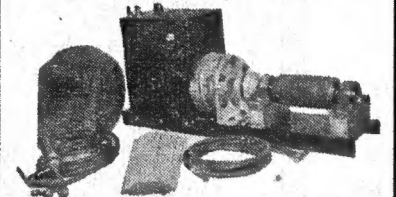


• Experienced horsemen know there's nothing like Absorbine for relieving lameness and stiffness. By speeding the flow of blood to the injury, it helps carry off congestion... usually brings swelling down in a few hours! Won't blister or remove hair. A stand-by for over 50 years, a LONG-LASTING BOTTLE of Absorbine costs only \$2.50. At all druggists.

W. F. Young, Inc., Lyman House, Montreal.

ABSORBINE

ECONOMICAL . . . ON THE FARM
POWER . . . ON THE SPOT
WELDING with the
P2 200 UNIVERSAL WELDER



This lightweight portable welder can be taken right to the job. Saves time and money. It requires no experience to operate and repairs are lasting. Built especially for heavy duty welding. Range 0-250 amp. Continuous duty. Dial type rheostat control. Operates from your tractor or gas engine of 12 H.P. or more. Carries a year guarantee. Complete as illustrated (less pulley) **\$155.00**

10-DAY MONEY-BACK GUARANTEE.

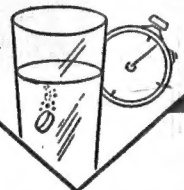
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ELECTRIC ARC SALES

1412 Main St.

WINNIPEG, Man.

READY
to go to work
in 2 SECONDS



STOP
HEADACHE

WITH
ASPIRIN

TRADE MARK REG. IN CANADA

GENUINE ASPIRIN
IS MARKED THIS
WAY

LOWEST PRICES
12 tablets 18c
24 tablets 29c
100 tablets 79c

60 YEARS OF ACCOMPLISHMENT

1889  1949

The pioneer woman made her own soap. Water seeping through wood ashes in a barrel or piece of hollow log, produced lye. Soap was made by boiling this lye with fat in an iron kettle. In the soap plants of today, soap is made by boiling vegetable oils with caustic soda (lye). Salt is added to cause the excess alkali and by-products to settle to the bottom. Lye and salt corrode most metal vessels. Corrosion affects the color, purity and keeping qualities of soap. So most vessels and containers are made of Nickel alloys. They resist corrosion, last longer, protect the purity and color of the soap.



Nickel Brings Dollars to Canada

Since more than ninety per cent of the Nickel produced in Canada is sold to the United States and other countries, it brings a constant flow of dollars back to Canada. In fact, Canada's Nickel industry is one of our chief sources of U.S. dollars so essential at the present time to maintain our foreign trade and make available products not produced in this country.

These dollars help pay the wages of the 14,000 Nickel employees, and help provide the dollars which make it possible to pay millions in freight to Canadian railways, to buy timber, steel, coal, machinery and supplies amounting to many millions each year.

These millions, flowing into all industries through the length and breadth of Canada, help create jobs for Canadians.



CANADIAN NICKEL

FIRST PRODUCED IN CANADA IN 1889



"The Romance of Nickel" a 60-page book fully illustrated, will be sent free on request to anyone interested.

THE INTERNATIONAL NICKEL COMPANY OF CANADA, LIMITED, 25 KING STREET WEST, TORONTO

Farm and Ranch Review Editorials

Have we been lulled to sleep by safety and security propaganda?

WHY are Americans with capital moving in to take over the development of our natural resources, while Canadians with capital refuse to take the risks? A reader, in a letter to the editor this month, suggests that one reason may be the absence of a Social Credit financial system in Canada. Canadians, he argues, require more purchasing power to bring their capacity to buy up to the economy's capacity to consume. We only wish the problem was as simple as this.

To our mind, the discussion of financial systems as such is irrelevant. Basically, what is wrong with Canada and Canadian thinking is a security-plagued state of mind. Our industrialists wave their arms and talk loudly about the wonders of free enterprise. Yet one of the great contradictions is that the "free enterprise" they extol is too often neither "free" nor "enterprising." A much better term for it would be "safe enterprise" or enterprise with all the risks carefully removed. We will detail this complaint in future issues. At the moment we would like to discuss the question in more general terms.

Any objective Canadian who looks carefully at his system today will be impressed by two outstanding characteristics — a national fetish for security and a concern for saving that is almost a mania. These things we can understand in the mature, even senile, economies of Europe. But they make no sense at all in a country like Canada which must develop its natural resources or lose them to those who will develop them. And we are losing them, at a break-neck speed, to American developers.

The truth is that "security" is an over-sold idea, and it may very well become a siren cry that will lure us all to disaster. To most Canadians, "security" is wound up with money in the bank, with investments in gilt-edged bonds and insurance. Yet the verdict of history must be that investing money in bonds is one of the worst ways of gaining security. It ignores the fact that, for 150 years, the intrinsic value of our money, our dollars in relation to what they will buy, has been steadily declining.

With but brief pauses, inflation has been a continuing process. That can be seen from an interesting story recently in the *New York Times*. The *Times* reproduced a menu from a famous New York restaurant of 110 years ago. Here are some of the prices:

Cup of coffee	1 cent
Fried fish	4 cents
Beef steak	4 cents
Ham and eggs	10 cents
Regular dinner	12 cents

At the time of this menu, an excellent wage was \$6 a week. A New Yorker earning that money could eat a good dinner at Delmonico's every night for 84 cents a week. Today the same worker would earn \$75 a week, but his evening meal would cost him at least \$1.50. Thus in

110 years, wages have advanced from \$6 to \$75 a week while prices of meals have risen from 12 cents to \$1.50. As the Wheat Pool Budget points out, that is 100 per cent inflation per decade for eleven consecutive decades.

That means that all efforts to obtain security through fixed income investments must prove abortive. It can't be done because when the time comes to cash in on the investments the "cash" will yield substantially less in terms of things it will buy.

Yet this concern with the allegedly safe and the allegedly secure has completely permeated, and indeed substantially paralyzed, St. James Street and Bay Street. The resources of Canada are crying for development. The cry is being heard all over the United States and American millions are pouring in. But it is being ignored in Canada, not only by the top financiers but by ordinary Canadians as well.

The penalty we pay in the West for this default of risk-taking in Canada is a steadily declining standard of living. Safe enterprise means tariff protection, it means combinations in trade associations to restrict competition in prices and in supply. It means unreasonable wholesale and retail mark-ups and higher prices for everything we buy.

There is only one way we know of to clear all this security nonsense out of our heads, to restore risk-taking to our economy, to speed the development of this country. That is by a Customs Union with the United States. A Customs Union will apply a forced draft to the Canadian economy. It will force the safe enterprisers into free enterprise. It will provide Western producers and consumers with free access to American goods at American prices. It will give our manufacturers access to the greatest market in the world for their manufactures. It will give them volume, which alone will bring down their prices to a competitive level.

True, it will create temporary dislocations. But out of these dislocations will come energy, initiative and a will to survive that will transform our thinking. It cannot come too soon.

★

The Calgary Bull Sale's shattered records

THE records that were broken in wholesale quantities at the Calgary Bull Sale this year attracted the attention of the newspapers. Underlying all this were significant developments affecting the welfare of the whole prairie farm economy.

High prices provided encouragement to the pure-bred stock raising community, something that was unfortunately lacking in too many years in the West. When top bulls sell for \$2,000, \$3,600 and \$7,000 it provides an incentive to every pure-bred stockman to improve his herd, to take the

time and care necessary in an effort to hit the jackpot.

Yet even more important, in our view, was the way in which farmers and ranchers from all across the prairies flocked to Calgary intent upon getting a fine bull for their herd, and prepared to pay \$700, \$800 and \$1,000 for a suitable animal. That points up a general awakening in the West to the need of raising quality beef, to the fact that a good herd is more profitable to raise and market than the scrub progeny of scrub bulls.

For all this, the pure-bred stock associations can take a great deal of credit. It is good to see that they are increasing their efforts this year to expand the demand for the best in breeding stock.

★

The West must buy more British goods

LET'S describe it accurately — the Dominion Government's decision to reimpose the duty on British textiles, suspended during the war, is simply knuckling under to the pressure of Ontario and Quebec textile manufacturers. And it means that we are taking another punch to the chin with a kick in the pants in the West.

On one hand, we will have to pay more for our clothes when the duty goes back on. On the other, an impediment is placed in the way of selling our wheat and other foods in the British market. We are making it more difficult than ever for the British to earn the Canadian dollars with which to pay for our food, creating more marketing problems for the morrow.

What's to be done about it? Write letters to our Members of Parliament? That might do some good. But we believe that a much more vigorous, and practical, approach must be made. The British, for example, have recently concluded a trade agreement with Poland, for the exchange of British goods for Polish food and lumber. Why? Simply because the Poles have shown that they are in pressing need for British goods. They not only need what Britain is producing, they are insistently and effectively demanding these goods.

There is no such demand from Canada. We have got out of the habit of thinking in terms of British goods. We take what the stores have to offer, they take what the wholesalers and manufacturers offer. There is no public demand pressing the stores for British goods, so it is not reflected in order for goods. But if Britain is to buy food from Canadian farms, Canadian consumers have got to buy British goods.

As consumers, Canadian farmers ought to take this matter in hand. They buy soap and shoes and gloves and clothes in great quantities. Every dollar they spend on British goods will make it possible to sell more food. As the British market is absolutely vital to Western wheat growers, there is great urgency in this matter.

If a hundred thousand farmers and farm wives demanded British goods in their shopping trips, the demand would become effective. That would be the first

Farm and Ranch Review Editorials

(Editorials Continued)

step. But other steps would be needed. The prairie co-operatives, for example, ought to be emersed in this problem of how to sell British goods in Canada. They ought to be pushing British goods vigorously, and searching the British Isles for products suitable to Western needs.

It is not enough to rely on Governments to find markets for our produce. We can go out and help create those markets by the exercising of some basic economic common sense in the way we spend our income.

★

A feed-grain policy to gouge the West

IN any national organization such as the Canadian Federation of Agriculture, the resolutions that come out of the mill must of necessity reflect compromises between conflicting interests of diverse groups and regions. The Western delegates will support Eastern demands in return for Eastern support of Western demands. All this comes under the heading of mutual back-scratching. But where does back-scratching end and deep gouging begin?

In one respect at least, the West got gouged at the Saskatoon convention of the C.F.A. That was on the freight assistance resolution. The convention went on record as favoring the adoption of a freight assistance policy on feeds as a permanent policy.

That policy would continue the wartime practice of the Dominion government shipping livestock feed freight free to Eastern Canadian farmers. In short, it would completely undermine the livestock industry of Western Canada. It would do it in this way:

Eastern stock raisers and feeders would be encouraged to keep their lands out of feed grains and put them in high yielding crops such as tobacco, peas, hybrid corn, tomatoes, etc. They would buy their grains in the west and get them laid down in Ontario and Quebec freight free. But when Western livestock raisers shipped their hogs and cattle to market they would have to pay the freight all the way to Toronto and Montreal. This would give eastern farmers a competitive advantage of \$2.50 per hog, two cents per dozen eggs and perhaps \$15 per butcher steer. It would be difficult to devise a policy

more discouraging to the expansion of mixed farming in the west than this one. If that is the price Western Agriculture has to pay for the support of Eastern Agriculture, we are getting all the worst of the bargain.

It could be argued that this was a step in a favored *Farm and Ranch Review* direction — the assumption by the government of the cost of hauling all freight over the unproductive wilderness between Winnipeg and Sudbury. We don't particularly care for piece-meal solutions. And in this case expediency is far more important than principle.

The pressing problem of the railways, created in part by the necessity for hauling freight over vast stretches of unproductive railway lines built for political considerations, can only be solved by a completely new approach. And it must be done completely or not at all.

In the meantime, the extension of the feed grains subsidy system will gouge the hog raisers, poultry raisers and cattle raisers of the West.

★

The anti-butter brigade abandons the poor

WE trust that the recent about face by the margarine advocates has not been overlooked by our readers. For months we were flooded by propaganda on a single theme — it was a crime against humanity to deprive the poor and the needy of a healthful and cheap butter substitute. Emphasis everywhere was on price, on making margarine available to those who could not afford to buy butter.

That argument has now been cast aside by the anti-butter legion. They are now concentrating their fire on preventing any legislation being enacted that will restrict the coloring of margarine to imitate butter. They want yellow margarine. Yellow margarine, in the United States, sells for anywhere from 12 to 25 cents a pound more than white margarine. If yellow margarine is permitted to be sold, there will be no white margarine available.

All that will be wonderful for the margarine makers. The vegetable oils that once sold as shortening will be sold as margarine for double the price. Why should the margarine makers sell margarine for 25 cents a pound uncolored when they can get 40 or 45 cents a pound

for it by adding a tenth of a cent worth of coloring to the product?

The circle is now complete. The criers of crocodile tears over the downtrodden poor who were being barred from the use of a cheap spread for their bread, are now trying to make sure, by the use of yellow margarine, that the poor will not be able to buy cheap white margarine. And at the same time, they undoubtedly hope that city housewives will be stupid enough to use yellow margarine instead of white shortening in their baking.

The tragedy of it all is that some members of prairie legislatures from farm communities have been completely hoodwinked by the anti-butter brigade.

★

Let's all support the Cancer campaign

AS this issue goes to press, the Canadian Cancer Society is launching its annual campaign for funds on the Prairies. While there is no campaign in Manitoba, each of the other western provinces is being asked to raise \$150,000. This, like Christmas Seals, Easter Seals, and the Canadian Red Cross, is an appeal for funds which should particularly commend itself to farm families.

Because of generous and active public support of our Cancer societies, great strides have been made in recent years in the diagnosis, treatment and cure of what is surely one of our most dreaded afflictions.

Caught in time, cancer is no longer regarded as incurable. One of the great problems is to catch it in time, to educate us all to be aware of cancer danger signs, to heed the seven danger signals of cancer — an unhealing sore, persistent indigestion, unusual discharge or bleeding, warts and mole changes, lump in the breast, continual hoarseness, and bowel habit changes.

Side by side with education goes research, care and treatment. All these take money, millions of dollars annually in Canada. The Canadian Cancer Society alone has allocated funds for 43 co-ordinated research projects at 11 Canadian universities. Scores of fellowships have been established to train promising young medical men as missionaries in new and proven techniques.

This great work must go on and we have no hesitation in suggesting to all our readers that it is in their interest to support their provincial cancer campaigns generously.

Start this year's garden with pencil and paper

APENCIL will prove a most useful tool in the gardener's kit, and it should be the first one put to use each season. True, it is not much use out in the garden itself, but with a few pieces of paper and perhaps a small ruler it will come in mighty handy for planning. And planning is an important and pleasant part of gardening.

It is not necessary to have an exact blue print, or even a plan drawn to scale, though a rough sketch in the proper proportion, with the prominent features like the house, garage, walks, trees, etc., marked in about the right places, will make things neater and easier.

The main thing about planning, however, is to help get the garden started at the proper time, and to prevent duplication and crowding.

The Garden Layout

For the vegetables, planning is simple mathematics. It is just a case of determining how much space is available and then laying this out in rows of various widths. For vegetables of medium size like beans, lettuce, carrots and such things it is best to leave at least a foot between rows and up to twice this much will not hurt. More space between makes cultivation easier.

Larger growing things like potatoes, peas, corn, etc., should have at

least two feet between rows, and a yard will not be too much, especially where a garden tractor is to be used for cultivation. Three feet apart is about the right distance for tomatoes, too, although they can go closer if they are staked. With sprawly vines like cucumbers, melons and small squash, the best plan is to plant in hills of a foot to 18 inches square and at least two feet between.

Plan Flower Garden

For the flower garden, lawns and shrubbery about the house, the experts usually advise an informal layout. By that, however, they don't mean just planting anywhere or, as

one wit suggested, mixing a dozen packets of seeds together and sowing broadcast.

It may sound a bit Irish but what these experienced gardeners have in mind is a carefully planned layout to produce the informal effect, and it is not difficult to accomplish. A few simple rules will help.

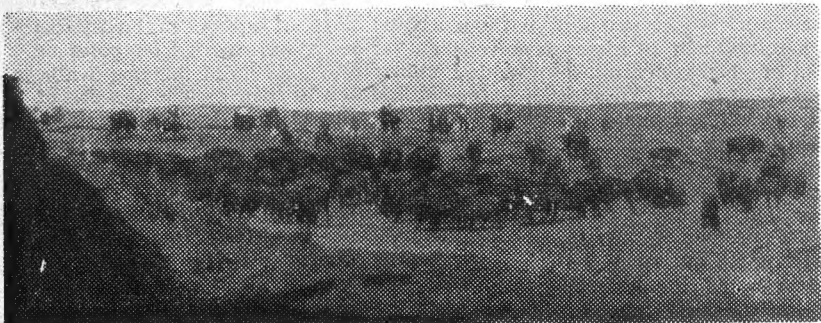
First, and of great importance, is the lawn. No matter how small the amount of ground to be landscaped it is advisable to have a piece of lawn in the centre and foreground. Around this the flowers and shrubbery are grouped with the house in the background. There is nothing like a well kept lawn to show off the rest.

Indians will put plow to work on Blood Reservation in Alberta

By C. FRANK STEELE

THE Indians of the Blood Reservation in Southwestern Alberta are going to put their land to work. There are about 1,800 persons, old and young, in the tribe and for a number of years they have raised considerable wheat, a goodly number of cattle and a lot of horses. An Indian and his horse, in fact, are traditional. But in late years a good many of the Indian horses have been sold with the result that the Bloods have more land for farming.

Tribal councils have been discussing this land question for many months. They have conferred with the Indian Department and have weighed the fabulous riches of the Indians in the Southwestern United States where oil has transferred the redman from the horse and buggy era to that of the luxury car with all the trimmings. Then they have not overlooked the fat trust fund of their Blackfoot brothers at Gleichen, more wealth taken from the good earth, and how the tribesmen draw from it from year to year making the tribe the wealthiest probably in Canada.



All this and more the shrewd Bloods have noted, now they are going to do something about it.

Under the new agricultural scheme on the Blood Reserve approximately 28,000 acres of the best land on the fine tract southeast of Lethbridge and between Macleod and Cardston will be offered for lease on a ten-year basis. Under the terms of the leases, which will be offered by the tribe to their white brothers, the virgin prairie sod must be "busted", reminiscent of the early days, and used for large scale power farming. Cereal crops only will be allowed.

The tribe is seeking to obtain the maximum returns from the land which will be allocated only to applicants they approve. They must be real farmers, no "fly-by-nighters" need apply. Their lands are choice and they know it. In the past it has been used for grazing cattle and horses; it has been grass land. Now it will go under the plow for the first time opening a new era for the Indians. For when the leases are up it is believed the improved lands will be taken over by the Indians themselves and operated as family farms.

Thirst for Improvement

The young Indians take to power machinery like ducks to water. They are ambitious, educated and want more of the good things of life including better homes and an incentive to work for.

In this Indian land development scheme the Indians expressed a wish themselves that C. S. Noble, noted dry land farmer and manufacturer of dry farm tillage machinery, take over a block of around 10,000 acres. The tribe felt that Mr. Noble would set the pattern and soon have a sort of demonstration farm. It is understood, however, that Mr. Noble because of pressure of private business, may be

unable to undertake this task appealing though it was to him.

It is proposed to offer 10-year leases for parcels of approximately two sections each and some 22 such parcels will be made available. Each bidder for the leases will be required by the Indian Department to post a cash payment of \$1 per surveyed acre. This money will be retained and applied on the first year's rental.

No Livestock

The tenant must break half the unit under lease during 1949, and the remainder must be broken in 1950. As mentioned, grain farming must be undertaken only, no livestock raising will be allowed. The whole 28,000-acre block will be fenced and no fences within those limits will be permitted.

The leases require that the tenant provide for payment of one-fifth share of the crop the first two years and one-third share of all subsequent crops, and in addition such cash rental per acre per year as the proposed

tenant sees fit to bid in order to secure a lease.

Access to the land will be over the Cardston-Macleod highway and such roads and trails as now exist on the reserve. Ordinarily the fellow who offers the highest cash bonus annually will get the land. However, before a lease is awarded to an applicant the undertaking must be approved first by the tribal band in council, and, second, by the Indian authorities at Ottawa. The whole scheme aims at a more beneficial utilization of the lands and there is nothing to bar an applicant from obtaining more than one parcel providing his offer is attractive enough.

The tract being made available to farming under the scheme is open prairie, free from stone and practically every acre is arable. The soil is a clay loam and the land is level — ideal for wheat production. It is close to markets and there is a possibility of it coming under St. Mary's Milk River irrigation scheme. The Belly River diversion unit in the S.M.R.D. would supply water to the tract if ever it is decided to irrigate the Indian lands.

Great Warriors

The Bloods are of the Blackfeet Nation. They were great warriors and hunters, when the white man appeared on the frontier scene. Their allies were other members of the Blackfeet Confederacy and their traditional enemies were the Crees. The last great Indian battle on the plains was fought on the present site of the city of Lethbridge and along the valley of the Oldman River. That was in 1870 and the Blackfeet were the victors. It is told that the Oldman ran red with blood during the battle. The Bloods received their reserve under the terms of the Great Treaty of 1877, and it is one of the most beautiful tracts in the province. It is all good land.

NEW FACTS ABOUT 2,4-D

"Acid content is NOT THE ONLY FACTOR in the choice of a 2,4-D product," says J. S. Skaptason, B.S.A., Technical Supervisor Green Cross Insecticides. "It has been found that other ingredients in a 2,4-D formulation have a most important influence on the effectiveness of the product.

"We make these statements with confidence," continues Mr. Skaptason, "on the basis of our own Canadian experiments, which included almost 5000 experimental field plots during 1948. More than 2400 of these plots were located right here in Western Canada and were devoted to a study of the effect of 2,4-D on flax, wheat, barley and many of the common weeds.

"This research proved that the other ingredients in a 2,4-D product are *very important*. 2,4-D Ester does not go into the plant by itself. It is carried into the leaf by the other ingredients so that it can go to work.



Four ingredients are the secret of Weed-No-More superiority

"We also proved that each of the four ingredients in Agricultural Weed-No-More contributed to the superior effectiveness of this product. Any formulation which lacks one of these ingredients is inferior in effectiveness.

1. The *Oil Carrier* in Weed-No-More was chosen from over 200 oils tested. This special oil *increases* the effect on weeds, *decreases* the danger to crops.
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3. The *Butyl Ester* of 2,4-D penetrates quicker. Rainfall minutes after spraying cannot wash it off.
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The most economical Weed-Killer!

"It is these field-tested ingredients in the proper proportions that make Green Cross Agricultural Weed-No-More the most economical weed-killer in terms of the cost of effective weed control per acre.

"In 1948 alone, over 6,500,000 acres of grain crops in Canada and the United States were sprayed with Agricultural Weed-No-More".

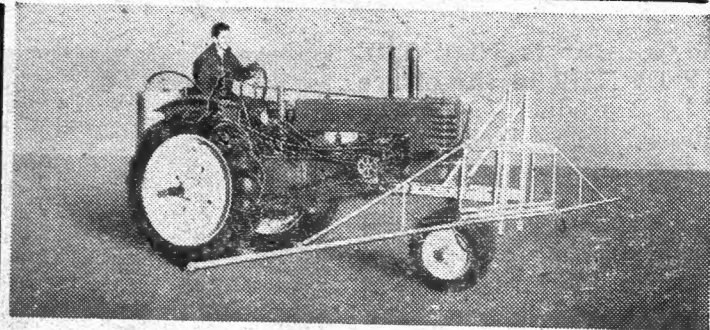
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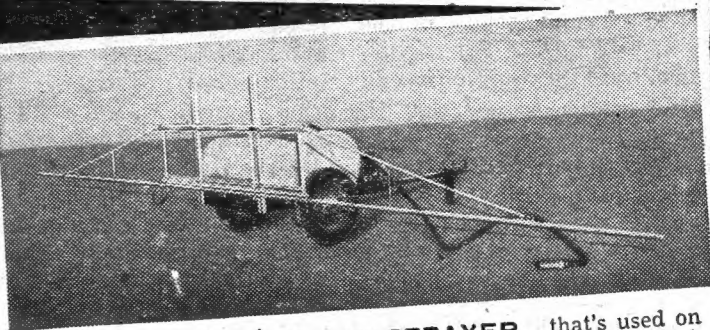
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Bird-boxes pay dividends but cats are a menace

By KERRY WOOD

(Author of Three Mile Bend, Birds and Animals of the Rockies,
A Nature Guide for Farmers)

EVERY April we should put up a few bird-boxes. As yet, only one farm in twenty has bird-boxes displayed around the garden. Talking to farmers about this omission, one gets the impression that most of them view the bird-box as merely a hobby-fad and a garden ornament. Which is quite wrong, as the bird-box is a practical insurance against too much insect damage.

For example, most farmers are willing to acknowledge the usefulness of Franklin Gulls. These black-headed little gulls that follow the spring ploughs devour tons of cut-worms and wire-worms and later go after grasshoppers. As I wrote in these columns last autumn, there is a statue erected in honor of Franklin Gulls at Salt Lake City, put up by the grateful Mormons when such gulls saved their crops from an invasion of grasshoppers. Yes: farmers all over the west are quick to admit that gulls are valuable helpers. But do farmers appreciate the larger aspect of bird control work — the fact that, without the continual help of insect-devouring birds of many varieties, farmers would NOT be able to wrest a living from the soil? Voracious insects, uncurbed by birds, would quickly destroy ALL our growing crops!

Help Our Allies

For that reason, it is most important to protect and help our bird allies. Some of these birds are dependent on old wood-pecker tree cavities for nesting sites, and farmers have a tidy habit of clearing out dead stumps around the home premises and thereby destroy the natural nesting sites of certain birds. That's why we have to provide them with man-made substitutes, such as bird-boxes.

We have to provide homes for birds like Tree Swallows, Purple Martins, Bluebirds, Wrens, sometimes Chickadees, and it pays to put up nest-platforms for Phoebe and Robins. Tree Swallows and Purple Martins devour literally billions of mosquitoes every summer season. Bluebirds are not

only beautiful birds to have around, but most useful as insect police around the garden, picking up caterpillars and sometimes potato-bugs as well as many soft-bodied insects.

Wrens are sharp-eyed little sprites that continually patrol the premises near their homes, their insect food ranging from moths down to green caterpillars found on cabbages. Chickadees concentrate chiefly on the excellent work of controlling the myriads of plant-lice so harmful to our plants and trees, while Phoebe are fly-catchers. Most of the friendly Robin's food consists of harmful insects, even though they do raid our strawberry patches at times.

For your own protection against insects around the home premises, you should build a few bird-boxes and put them up during this month of April.

Young folks like to build bird-boxes, and should always be encouraged at this useful hobby. Every farm garden, every rural school grounds, should have at least Ten bird-boxes of various types erected on poles or fastened to house and building walls. In addition to their beneficial work of insect control, you'll find that bird-tenants pay you ample rent for your bird-boxes with pleasant bird-songs, too.

In connection with bird-boxes, we should mention the family cat. The writer was criticized by some readers of this column for not mentioning cats as good pets, when discussing animal and bird pets in the January number. Well!-I-I-I-I—I'll readily admit that the house cat is one of the world's most beautiful animals.

But it isn't really a domestic animal, not in the true sense of that word "domestic". The cat accepts the comforts of our hearth and our food bounty, without giving up a particle of its individual freedom. Part of that freedom is devoted to hunting, despite how well fed the cat may be at home. Possessing a body that is amazingly well developed as a



killing machine, the cat naturally insists on using that beautiful, steel-muscled body and its needle-sharp teeth and claws for the inherent purpose of its physical development: hunting and killing.

Not for food, but for pleasure. No matter how much meat, how much rich cream and milk you feed your cat, that animal is going to go out and kill birds — for fun! You can't train them out of it. If you catch a young kitten with a freshly killed bird, and take that bird and slap the kitten repeatedly across the face with the bird's carcass, it's supposed to convince the cat that birds are taboo from then on. But one friend of mine who tried this stunt repeatedly on his growing cat finally reported that it did not work: his cat continued to kill birds, every chance it got.

Put a dead bird and a dead mouse in front of a hungry cat, and you'll notice that the animal will choose the bird for food, every time. One patient naturalist followed a house cat on its hunts — as much as any human can follow a secretive animal like a cat. Anyway, this naturalist reported that during the course of a two-week period during the fledgling season, this one well-fed house cat killed forty-two young birds just for the fun of killing.

How Much Slaughter?

From this and other reports by naturalists who have studied cat predations, it is estimated that each domestic cat kills approximately one hundred birds per year, mostly fledgling birds during the months of May and June. That's why few bird naturalists keep cats as pets. Like myself, they will grant you that the

cat is a marvelously beautiful animal. But — it is a killer of birds.

Almost every farm has a cat on the premises, sometimes admitted to the house, sometimes kept out in the barns. The idea is, of course, that cats control the mice. Some of us might like to argue that cats cancel out their good work of mouse control by their destructive killings of bird-life, but it would be an uphill fight to convince people of that. Cats are kept for mouse control, and that's that.

But if you'd like to give your useful bird allies a chance of survival around the home premises, place the bird-boxes well out of reach of the family cat. Put a wrap of tin around the poles on which you erect bird-houses, to prevent the cat from climbing those posts. And put a bell around the neck of your cat during the fledgling season: a turkey bell is the proper size. This does not protect young birds as completely as some folks believe, but undoubtedly it does save a few fledglings.

The best precaution of all is to cage your cat or cats during the young bird season. And this is not cruel. My friend, Evan Thompson of Red Deer, is fond of both birds and cats, and every May and June you will find Evan's cats contentedly housed in an old silver-fox pen that measures about ten feet square. The cats stay in that pen for two months, except for brief intervals when they are taken into the house. Evan Thompson will assure you that fledgling birds thrive around his home now, whereas before his penning experiment he noticed a high rate of mortality among the young birds due to the predatory instincts of his cats.

Here is a brief summary of Entrance Hole Sizes and Inside Box Dimensions for your guidance in building new boxes.

Bird	Diameter of Entrance.	Inside Dimensions
Wren	1 inch	4 inches square by 6" deep
Chickadee	1 1/4	4 x 4 x 8
Tree Swallow	1 1/4	5 x 5 x 6
Bluebird	1 1/2	5 x 5 x 8
Purple Martin	2	7 x 7 x 6

Phoebe and Robin: Nest platform, 6" square, placed under house-eaves.

Range fleece values vary widely, Southern Alberta survey shows

FLEECES ranging in value from less than \$2.50 to more than \$6.00 per fleece were produced in the range ewe flocks of southern Alberta in 1948. These values were arrived at by weighing individual fleece from various flocks and assuming an average price of 40 cents per pound, which is somewhere near the per pound value of wool this year. Six different range flocks were included in this study by the Wool Laboratory of the Dominion Experimental Station, Lethbridge. It was found that fleece weights ranged from a low of 5.9 to a high of 15.0 pounds in the six flocks. In one particular flock there was a difference of 7.9 pounds between the heaviest and lightest fleeces or a difference in value of about \$3.00. It is quite evident that the ewes with the heavier fleeces would be much more profitable than those with the lighter fleeces.

There was a difference of two pounds in the average fleece weights of the lowest and highest producing flocks. This would mean that, at current wool prices, the rancher with the higher average fleece weights would get a return of 80 cents per head more than the rancher with the lower fleece weights or about \$800.00 on the basis of a flock of 1,000 ewes.

The most important point brought out by this study is that even in the highest producing flock there was a difference of 7.5 pounds between the lightest and heaviest fleeces. This

shows that there are many sheep with light fleeces and indicates that much improvement can be made even in good flocks by careful culling of the low producers.

The most accurate culling can be done at shearing time by actually weighing the fleeces and marking the low producing ewes but this may not be very practical in most flocks. An alternative method is to do the culling in the fall or just before shearing on the basis of staple length, fleece density, and fleece quality. By handling the sheep through a chute it is relatively easy to find the ewes with short staple, open fleeces, and fleeces of poor quality.

If the culling is done in the fall, the ewes can be wool branded and sold. If it is done just before shearing the marking is done by opening the fleece on the shoulder or back and paint branding directly on the skin with a thin stick and branding paint. This mark will show up clearly after shearing and a culling brand can then be placed on the sheep for use in the fall.

This method has been used successfully by many producers as staple length and fleece density are related directly to fleece weight and culling on the basis of these characteristics can be very effective in increasing fleece weights.

SUPPORT YOUR CANCER DRIVE.

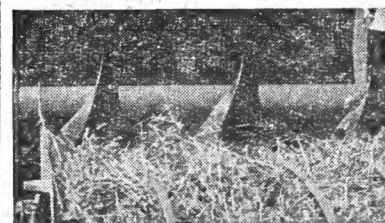
● You don't have to be an expert to use the Case Slicer-Baler. It is free from complicated mechanism—so simple that teen-age boys operate it. What's more, it's so moderate in price that most any farmer can afford to have his own.

With your own baler you can start baling the minute your hay is cured just right, before sun-bleach spoils color and vitamins, before over-curing causes leaves to shatter. You run less risk of rain, too.

You get firm, neat bales of uniform size with a Case Slicer-Baler. It uses the standard wire tie—proof against weather, rodents, insects, rough handling and long hauls. Bales open up into uniform portions like sliced bread, easy to feed without tearing off leaves.

From hay in the windrow to bales on the wagon, this baler takes little labor. It handles windrows from 7-foot swaths at the same speed as tractor mower and rake. Years of use have proved it so sturdy it takes very little upkeep.

Feed Auger... Regular Equipment



● Formerly available as an extra, this feed auger proved so popular that it now is supplied as regular equipment. It does not drag the hay but assists the gentle-acting, leaf-tight cross-feed apron. Particularly valuable for light, fluffy hay and straw in windy weather, it promotes fast work in all crops. It can be easily attached to Case Slicer-Balers already in use.

Headquarters for modern haying. See your Case dealer for full information on balers, tractor mowers—both trailer and mounted types—and the 4-bar tractor side-delivery rake, geared to make fluffy windrows at tractor speeds. Write for free booklet "How to Make High-Protein Hay." Mention any size of tractor, any hay machine, combine, corn binder or picker, forage harvester, spreader or hammer mill, tillage or planting implements you may need. J. I. Case Co., Calgary, Edmonton, Regina, Saskatoon, Winnipeg, Toronto.





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Vegetables recommended for Northeastern Saskatchewan

AFTER several years of testing on the Dominion Experimental Station, Melfort, Sask., and on Illustration Stations in northeastern Saskatchewan, says R. H. Anderson, the following vegetable varieties can be recommended for general use:

Asparagus—Mary Washington.
Beans—Bountiful, Stringless Green Pod, Round Pod Kidney Wax, Davis White Wax, Kentucky Wonder (pole).
Beets—Detroit Dark Red, Good For All.
Cabbage—Golden Acre (early), Copenhagen Market (medium), Danish Ballhead (late).
Carrots—Nantes Half Long, Chantenay, Amsterdam.
Cauliflower—Early Snowball, Snowdrift, Express Erfurt.
Celery—Golden Plume (early), Utah (late), Golden Self Branching (late).
Citron—Red Seeded.
Corn—Dorinny, Banting, Golden Sweet and Gil's Early Market (early), Golden Bantam, Sunshine, Marcross and Spangcross (medium to late).
Cucumber—Early Russian, Deltus, Early Fortune, Straight Eight.
Lettuce—Grand Rapids (leaf), New York No. 12 and Sweet Heart

(head).
Leek—Large Carentan.
Marrow—Long White Bush.
Muskmelon—Honey Rock, Farnorth.
Onions—Dutch sets, Red Wethersfield, Mountain Danvers, Early Yellow Globe, Sweet Spanish, White Portuguese (pickling).
Parsnip—Hollow Crown.
Peas—Thomas Laxton, Little Marvel, and American Wonder (early), Laxall, Lincoln and Radium (medium), Stratagem, Onward and Telephone (late).
Peppers—Harris Earliest.
Potatoes—Warba (early), Irish Cobbler, Early Ohio, Netted Gem.
Pumpkin—Sugar.
Radish—Saxa, French Breakfast, Scarlet Globe, Icicle.
Spinach—King of Denmark, Bloomsdale.
Squash—Green Hubbard, Gold Hubbard.
Swiss Chard—Lucullus.
Tomato—Early Chatham, Bounty, Earliana, Bonny Best, Stokesdale.
Turnip—Laurentian, Northwestern-swede.
Watermelon—Sensation, Early Canada, Northern Sweet.

Horticultural varieties for Southern Alberta

THE list of horticultural varieties, especially vegetables, change each year. The new ones that are recommended as replacements are the best of recent introductions and should be superior in earliness and quality to those replaced.

A great many kinds of vegetables and fruits are grown and critically studied every year at the Lethbridge Experimental Station. From these studies sufficient evidence is collected to assess the value of all the varieties grown and a recommended list comes into being. This list is revised and brought up to date each year so as to keep pace with the ever changing picture. Of course, where growers have varieties not listed here, that have been in use and found satisfactory, there may be nothing gained by changing.

VEGETABLES

Beans—Round Pod Kidney Wax, Tendergreen, Blue Lake (Pole Bean).
Beets—Detroit Dark Red (storage), Crosby's Egyptian.
Cabbage—Early Vienna (early), Copenhagen Market (midseason), Penn State Ballhead (late, storage).
Celery—Golden Self Blanching (early), Utah or Salt Lake (late, green).
Carrots—Nantes (early, bunching), Chantenay (late, storage).
Cauliflower—Snowball (early), Snowdrift (late).
Cucumbers—Mincu (pickling), Delcrown or Cubit (slicing).
Sweet Corn—Golden Early Market (early), Carmelcross (midseason), Golden Bantam (late).
Lettuce—New York No. 12 and Slobolt (head), Grand Rapids (leaf).
Muskmelon—Farnorth.
Onions—Southport Yellow Globe (late, storage), White Barletta (pickling), Sweet Spanish (late, storage).
Parsley—Paramount.
Peas—Little Marvel and Wisconsin Early Sweet (early), Lincoln (midseason), Stratagem (late).

Peppers—Harris Earliest (green), Sweet Yellow.
Potatoes—Irish Cobblers (early), Canus (midseason), Netted Gem (late).
Pumpkin—Small Sugar, Connecticut Field.
Squash—Golden Hubbard (summer), Green Hubbard (late).

FRUITS

Strawberry—British Sovereign (June bearer), Gem (everbearer).
Raspberry—Newburgh.
Red Currants—New Red Dutch.
White Currants—White Dutch.
Black Currants—Early Topsey.
Gooseberry—Pixwell, Champion

TREE FRUITS

Apples—Haralson, Heyer No. 12, Dr. Bill, Duchess.
Apple—Crabapple — Hybrids — Trail, Rescue.
Crabapples—Dolgo, Florence, Columbia.



"Couldn't I interest your club in a sock-darning project?"

Morden boosts hybrid bush tomatoes

HYBRID bush tomatoes are favorites at the Dominion Experimental Station, Morden, Man., says Chas. Walkof. During the years 1944-1948, they have outyielded Bounty by 20 to 25 per cent, and Early Chatham 30 to 35 per cent in early marketable fruits. In flavor and general appearance too, the hybrid fruits have been superior.

The apparent resistance of hybrid bush tomatoes to Alternaria and Septoria diseases has interest for Manitoba gardeners. These diseases are serious in some seasons in Manitoba. They cause the leaves of the plants to drop soon after the fruit begins ripening in early August. As a result, all the fruit on the plants is forced to ripen before it attains full size.

Normally the largest tomatoes are obtained at the beginning of the season. As picking progresses, fruit size decreases. In some varieties this decrease is greater than in others. In 1948 Early Chatham fruits averaged 3 to 4 ounces for the first pickings and 2 ounces at the end of the season. Hybrid tomatoes do not show as great size decline during the season. In the same year, the Early Chatham x Firesteel hybrid averaged 4½ ounces per fruit in early August and 4 ounces on September 25 — a ½ ounce decrease for the entire harvest season.

Hybrid bush tomatoes considered adapted to prairie gardens are: Bounty x Redskin for first early; Early Chatham x Bounty and Early

Chatham x Firesteel for mid-season type. In fact, these hybrids are considered satisfactory for commercial processing where this is done on the prairies.

Seed of hybrid bush tomatoes is still very scarce. Seed houses may be expected to list it before long. Thus far, seed of hybrid staking tomatoes is being listed in small quantities by United States firms. The task of producing such seed requires trained help. In fact, all hybrid tomato seed is the result of cross pollinating individual flowers by hand.

The seed of hybrid tomatoes, like that of hybrid corn, should be used once only. If seed is saved for the second year, the tomatoes will be of variable type. Moreover, the fruit is likely to be rough, inferior in quality and only moderately productive. The original parent plants must be crossed repeatedly for high quality first generation hybrid seed.

The price of hybrid tomato seed is high and will likely remain so for some time. But considering the advantages of hybrid tomatoes, the difference in cost between such seed and that of the usual market varieties is negligible.

The availability of hybrid tomatoes for use in home garden or commercial gardening may not be as rapid as would be desired. However, once used, the gardener, like the hybrid corn grower, will be loathe to return to the usual open-pollinated varieties.

How much is Barley worth when marketed through hogs?

MANY estimates have been made as to the cost of producing hogs, depending on locality, feeds used, labor costs, etc. But the question which interests a farmer is "How much can I realize from my grain if I am willing to roll up my sleeves and feed that grain to hogs?"

No. 2 feed barley is currently quoted at about \$1.10 per bu., basis track at Fort William. This represents something less to the grower in Western Canada.

In the following table the revenue that may be obtained from a crop of barley at varying yields when fed to hogs in quantities ranging from 500 lbs. to 375 lbs. to produce 100 lbs. of live hog or 75 lbs. of dressed carcass has been worked out. The price

of hogs used in the calculation has been taken at \$30.00 per 100 lbs. dressed carcass weight, with no government premiums for quality included. For example, when 500 lbs. of barley are required to produce 75 lbs. of dressed carcass, at the above hog price the 10.4 bushel of barley needed are worth \$22.50, or \$2.16 per bushel. With a yield of 20 bushels per acre, the value of barley per acre works out to \$43.20 when fed to hogs. Similarly, the value of barley per bushel and per acre according to various yields is given separately on the basis of the \$30.00 hog price. With larger yields per acre and better feeding efficiency, the value of barley feeding is greatly enhanced. By similar calculations a comparison can be made at varying hog prices.

		When Quantity of Barley to Produce 75 lbs. of dressed carcass weight (or 100 lbs. of live hog) is							
		500 lbs.		450 lbs.		400 lbs.		375 lbs.	
Barley Yield per acre	Hog Carcass Price per 100 lbs.	Value of Barley per bu.	per acre	Value of Barley per bu.	per acre	Value of Barley per bu.	per acre	Value of Barley per bu.	per acre
bu.	\$	\$	\$	\$	\$	\$	\$	\$	\$
20	30	2.16	43	2.40	48	2.70	54	2.91	58
25	30	2.16	54	2.40	60	2.70	67	2.91	72
30	30	2.16	64	2.40	72	2.70	81	2.91	87
35	30	2.16	75	2.40	84	2.70	94	2.91	101
40	30	2.16	86	2.40	96	2.70	108	2.91	116
45	30	2.16	97	2.40	108	2.70	121	2.91	130
50	30	2.16	108	2.40	120	2.70	135	2.91	145
55	30	2.16	118	2.40	132	2.70	148	2.91	160
60	30	2.16	129	2.40	144	2.70	162	2.91	174

NOTE—No Government premiums included in hog prices. Quality premiums mean extra revenue from barley fed to the hogs.

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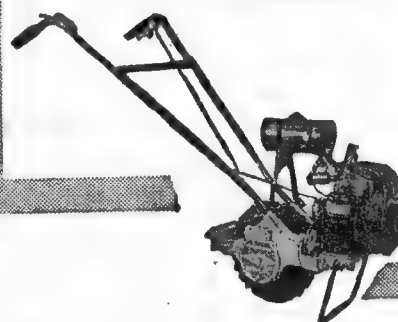
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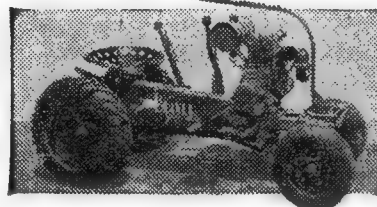
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MANY a ramshackle house is not as bad off as it looks. The roof may be a mass of curled and split shingles. The siding may be warped and broken. But, if the structural members are sound, such a house is still a good candidate for rejuvenation.

Thanks to modern building materials the job need not be difficult for many of these materials can be applied right over the old roofing or siding.

The Roof

Let's start with the roof. The first step is to provide a reasonably smooth surface for applying the new roofing. The ends of curled or "kicked-up" shingles must be secure-

The broken-down farmhouse at the top of this picture is hard to recognize as the fore-runner of the attractive home on the right. It only goes to show what can be done with modern materials to turn an eye-sore into a beauty spot. The picture on the left is an interior shot of the kitchen.

Who said tear it down? Maybe you can rebuild it

By GRANT H. ADAMS

tional appearance. In this instance, a texture resembling wood grain is pressed into the shingle and the butt end of each 30 in. unit is staggered so that the shadow line suggests individual wood shingles.

The natural color of asbestos-cement shingles is gray. However, more and more people want color for their homes so asbestos shingles are also made in black, green and red tones. Mineral granules are deeply embed-

to vary the color scheme, but painting is not necessary.

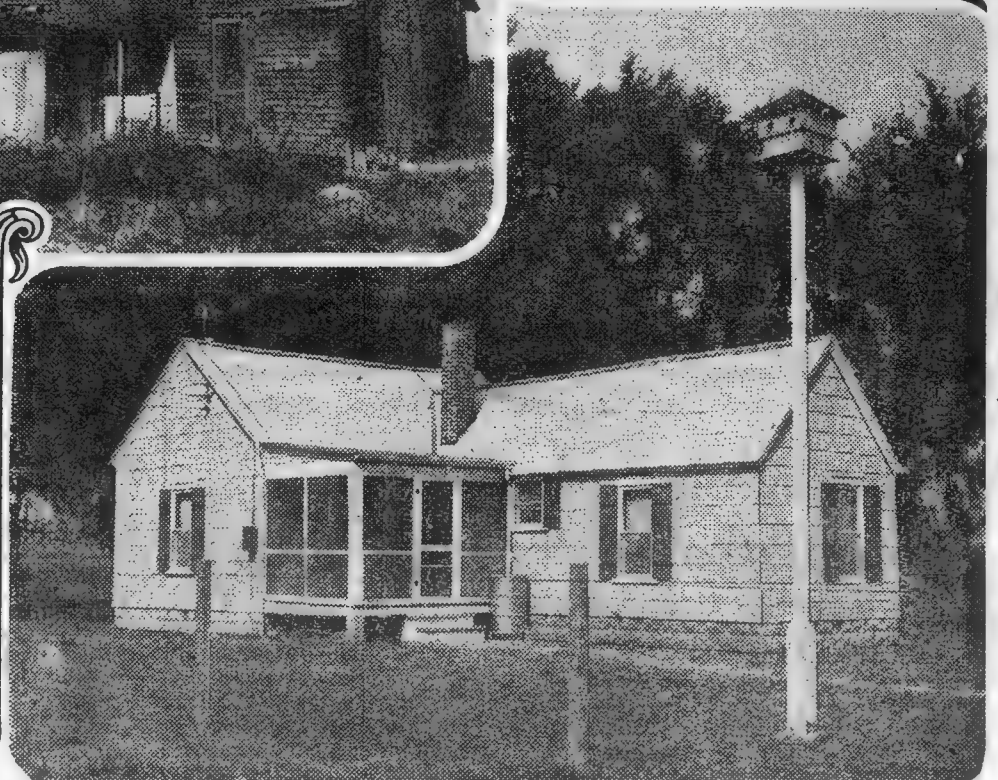
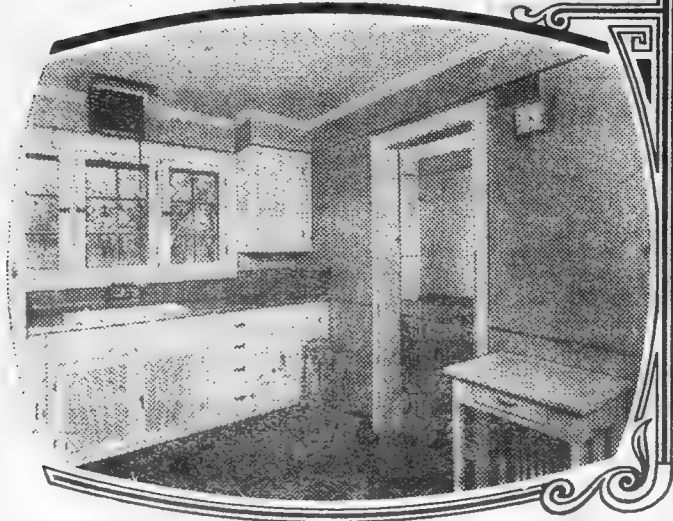
This brief description gives some idea of how houses headed for oblivion can be retrieved and returned to useful service for many, many more years. However, to assure maximum benefits from the new materials they must be handled and applied correctly. To prevent any mistakes most manufacturers include detailed application suggestions with each ship-

Also, it can be washed repeatedly without ill effect and will not harbor bacteria. A further advantage is that it is vermin proof. In localities where rats may be a problem this characteristic is extremely valuable.

This material can also be used in other rooms. If desired, it can be painted and decorated in a variety of ways although the natural stone gray color of the Flexboard makes a pleasant, unobtrusive background for living.

However, for re-doing bed rooms, dining rooms and living rooms there are wood fibre materials such as Ten-test, Insul-board that some may prefer. These are frequently called "insulating boards" since they also provide insulation.

Insulating board is made from pine trees which are shredded into fibres and then recombined to form structurally strong, homogeneous boards. They can be applied right over old plaster and are available in square panels, in long narrow planks



ly nailed down. A few of the old shingles may be decayed. They should be replaced as should also any missing shingles.

The next recommended step is to cover the work with 15 lb. asphalt saturated asbestos felt. The felt should be laid with a 4 in. horizontal lap, a 12 in. overlap at vertical end of sheets, and also a 12 in. lap on hips, ridges and valleys.

Now comes the new roof. Of the modern roofing products available, Durabestos Shingles are a good example. They are made of two inorganic ingredients, asbestos fibres and Portland cement. The result is a rigid shingle of stone-like permanence.

These particular shingles are 30 in. wide so each unit covers about as much area as five ordinary shingles. The head is of a special design that simplifies spacing and aligning. There are pre-punched nail holes and only 4 nails are needed. These advantages are typical of the study that has gone into the design of newer materials so that the amateur as well as the professional can apply them with less effort and in less time.

Fire-Proof Roof

Durabestos Shingles also illustrate how modern technology has been able to produce more permanent building materials without sacrificing tradi-

tioned in the shingles during manufacture to produce the color.

The immediate advantage of such a roof is a new, fresh appearance. However, the really important benefits now available are the greater safety and longer service which they provide. For instance Durabestos Shingles won't burn. Sparks from the chimney or flaming brands from near-by fires will burn out harmlessly. Neither will they rot. They come through the alternate freeze and thaw of spring without being damaged. In other words, it is now possible to have a roof that will last a lifetime.

The Sidewalls

Fortunately, similar rejuvenation can be extended to the sidewalls. For this purpose there are asbestos shingles known as Cedargrain Siding Shingles. They are applied in much the same way as the roofing shingles. The siding shingles also come in colors and have deep grained texture.

New shingles over old roofing and siding add up to double thick protection. It's like putting a new overcoat around the house. As a result, winter fuel requirements should be less and further economies can be expected through less maintenance costs.

Since the color is an integral part of asbestos shingles, there is no periodic painting problem. Asbestos shingles can be painted, if you want

ment. If these are followed, the job of converting an old building into a new one can be quickly and economically accomplished.

Interiors

Having re-conditioned the exterior of the house the improvement program can usually be continued to advantage on the inside. Kitchens and washrooms are generally a good place to begin.

For these locations the research laboratories have developed other interesting new products. The Johns-Manville Research Center devised an asbestos-cement sheet material known as Flexboard. It comes in large sheets 4 ft. by 8 ft. either 1/8 in. or 3/16 in. thick. Since it will not burn it is ideal for use in rooms where there are cook-stoves or heaters.

In the manufacture of Flexboard, asbestos fibres and Portland cement are combined under tremendous pressure, then hydraulically re-pressed for additional strength. The result is a material that is extremely tough, dense and wear resistant. Yet the sheets are light enough in weight to handle easily and to be worked with ordinary carpenter tools and methods.

In wash rooms where there is steam from hot water Flexboard will be particularly valuable since moisture does not cause it to rot or rust.

or in sheets. The 4 ft. by 8 ft. sheet size is the most popular.

Greater Comfort

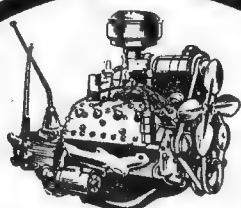
Products made from wood fibres and those made of asbestos fibres are eliminating many of the problems which were formerly endured for lack of an answer. In this progress toward better living for everyone there is still another type of material, also made from fibres, which can add to comfort. It is a rock wool home insulation known as Super-Felt Rock Wools Batts.

To make these batts, the rock ingredients are placed in furnaces and melted into a liquid form. Next, the molten rock is fiberized. Then, these rock fibres are felted into batts which, placed between the ceiling joists, will effectively halt the upward escape of heat in December and the downward infiltration of heat in July.

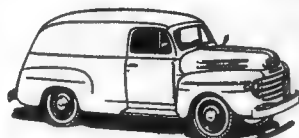
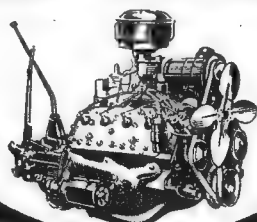
Quarries, forests, and mines have always provided our important building materials. In the past these were too often bulky, hard to manage and laborious to apply. Today the picture is different. From these same time honored sources, are coming a variety of new products. Lumber dealers and other suppliers of building materials have them in increasing quantities.

And all of them can be used in the building of new homes as well as in the re-building of old ones.

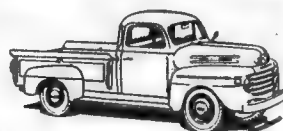
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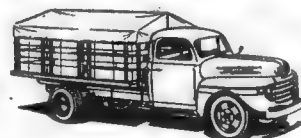
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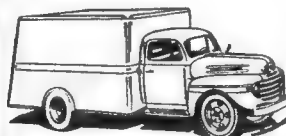


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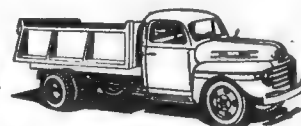


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Grey wooded soils studies in Saskatchewan and Alberta

THE grey wooded soils constitute an important agricultural area extending through the wooded zones of northern Manitoba, Saskatchewan, Alberta and British Columbia. As these areas were settled, and as agricultural experiments progressed, it became evident that within the grey soils there are specific types which exhibit characteristic responses to different fertilizer elements.

Not only were variations noted in the nutrient requirements, but also in the adaptation of cereal and forage crops. Soil surveys indicated that these variations were largely due to such soil forming factors as parent material, climate and vegetation. With these variations and the growing agricultural importance of the area it was felt that experimental work should be done at locations representative of wide areas. To accomplish this, illustration stations were established throughout the district. They are active at present at Glaslyn, White Fox, and North Makwa in Saskatchewan; and at Ched-

derville, Fallis, Debolt, and Falher in Alberta.

Extensive experimental studies are also being conducted on the recently established District Experiment Sub-stations at Loon Lake and Snowden in Saskatchewan; and at Athabasca and McLennan in Alberta. These various units are supervised and directed from the Melfort, Scott, La-combe and Beaverlodge Experimental Stations, says Ross Cairns, Supervisor of Experimental Stations, Dominion Experimental Farm, Ottawa.

In twelve tests located at such widely-scattered points as Chedder, Debolt, Falher, Progress and Snowden the inclusion of legumes in the crop rotation has been beneficial to the productive capacity of these grey soils. The wheat yields in the legume rotation have exceeded those in the non-legume rotation by an average of 4.2 bushels per acre.

The use of farmyard manure has proved one of the most generally effective methods of increasing crop production throughout the grey wooded areas. Cereal and hay crop increases have been obtained at Chedderville, Fahler, Debolt, Progress, Snowden, McLennan, North Makwa, and Glaslyn. On the basis of 18 tests conducted on these stations an average wheat yield increases of 6.8 bushels per acre has been obtained from the use of 15 tons of manure per acre.

Contour planting of shelterbelt trees

THE protective as well as the aesthetic value of a well-grown belt of trees on the prairie farm has been amply demonstrated by the thousands of such tree belts to be found in all parts of the prairie area. These windbreaks have not been established and maintained without considerable effort on the part of their owners. The main factor in maintaining these belts and producing heavy growth has been the maintenance of sufficient soil moisture.

This has been accomplished in most cases by the removal of competition from grass and weeds, and by the maintenance of a wide fallow strip on each side of the narrow belt. Observations have also indicated that where trees have been planted where extra run-off water was held for short periods that much better growth resulted. This observation led to some study of the possibility of taking greater advantage of natural contour of the land and the possibility of planting farm shelterbelts on the contour rather than in the customary straight line method.

Observations have indicated that, where trees can be so planted, the extra moisture held will result in better growth and survival. The advantages of this method will be even greater if the tree belt can be planted in the so-called "borrow pit" behind a low, broad based terrace or dyke, since there is usually a considerable accumulation of water behind the terrace after even a light shower.

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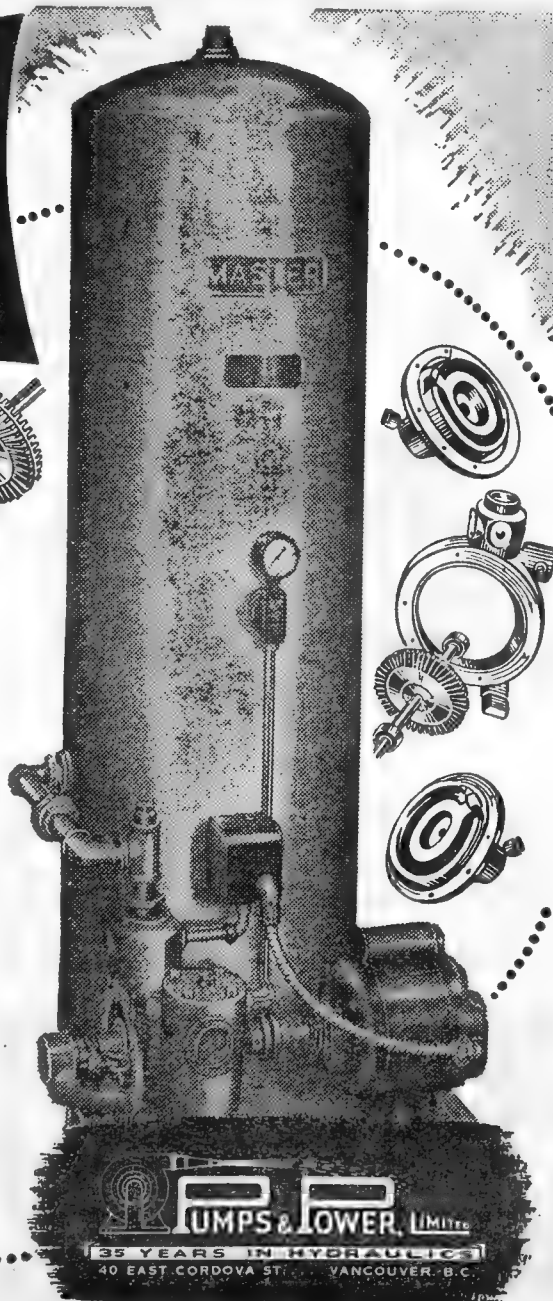
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A few fruit trees will improve any farm surroundings, provided they are not neglected. Thos. Scaife, Marquette, finds them an asset to his home setting.

Farm tree planting can be streamlined

(Experimental Farms News)

THROUGH experience and from necessity practices often considered fixed and more or less standard become modified. The result of such change is usually improved efficiency. Consider how the tractor, the combine and the truck have revolutionized grain growing in Western Canada!

In farm tree planting, while improved practices are perhaps not as spectacular as in grain production, nevertheless, by following up-to-date methods needless work, use of time, much risk and uncertainty can be removed, says John Walker, Superintendent, Forest Nursery Station, Indian Head, Sask. Of more importance than these factors, however, are greater uniformity in work accomplished and much more personal satisfaction in the job done.

Just as moisture, or the lack of it, is the principal factor governing returns from grain growing throughout a great proportion of the Prairie Provinces, so also is moisture the all-important requirement for the greatest success in tree planting. Every means should, therefore, be taken to reduce to a minimum loss of moisture from the soil at planting time. This can be accomplished by streamlining tree planting methods.

While the method of planting trees in a furrow opened with a walking plow, which is actually a 'filling-in' job, is vastly superior to digging holes with a spade or shovel for individual trees, greater speed and sustained interest, as well as better survival of trees, may be expected where a properly adjusted tractor-drawn gang plow is used instead. Rubber-tired tractors are preferable.

For a tree planting job necessary adjustments can be readily made on a gang plow. Because trees are to be planted in the last furrow made by the gang plow this furrow should be plowed out as deeply as possible. Trees (and cuttings) are then set along the straight edge or face of the furrow the required distance apart, and kept upright by placing enough moist soil around the roots of each tree to hold it in place. This can best be done by a team of two persons — one to place the trees, the other to fill in the soil with hoe, rake or shovel. Only a short length of furrow should be plowed out ahead of the team, or teams of planters.

On the return trip with the tractor and gang plow additional soil is filled in around the trees by setting the plow properly. The soil is made firm near the tree roots by the tractor wheel passing over it. Quite a

deep furrow is plowed on to the tree roots by the proper adjustment of the leading plow. The remaining plows of the gang from first to last, turn over furrows that are progressively shallower. The last plow furrow is little more than a scarification of the soil surface.

Tree planting is also being streamlined by the use of tree planting machines. These machines have a place particularly in municipal or other large-scale planting where planters are willing to co-operate in its use. The main advantage from using these machines are:

1. The soil into which trees are planted is never exposed to drying out by sun and wind;
2. During the one operation the furrow is opened the trees are set, and the furrow is filled in;
3. From machine-planting a higher survival and stronger rate of growth may be expected provided planting material is in satisfactory condition, and other conditions are favorable, at planting time.

Small trees from 12 to 24 inches high of both evergreen and broad-leaf species may be planted with machines. Rows may be spaced four or more feet apart, depending on cultivation implements to be used. In the rows any desired distance between trees may be decided upon. Slow-speed tractors are desirable for hauling tree planting machines. Even with these some difficulty is likely to be met spacing Caragana seedlings one foot apart in the row. ●



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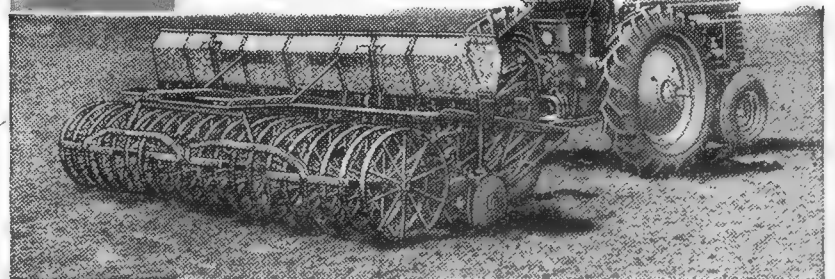
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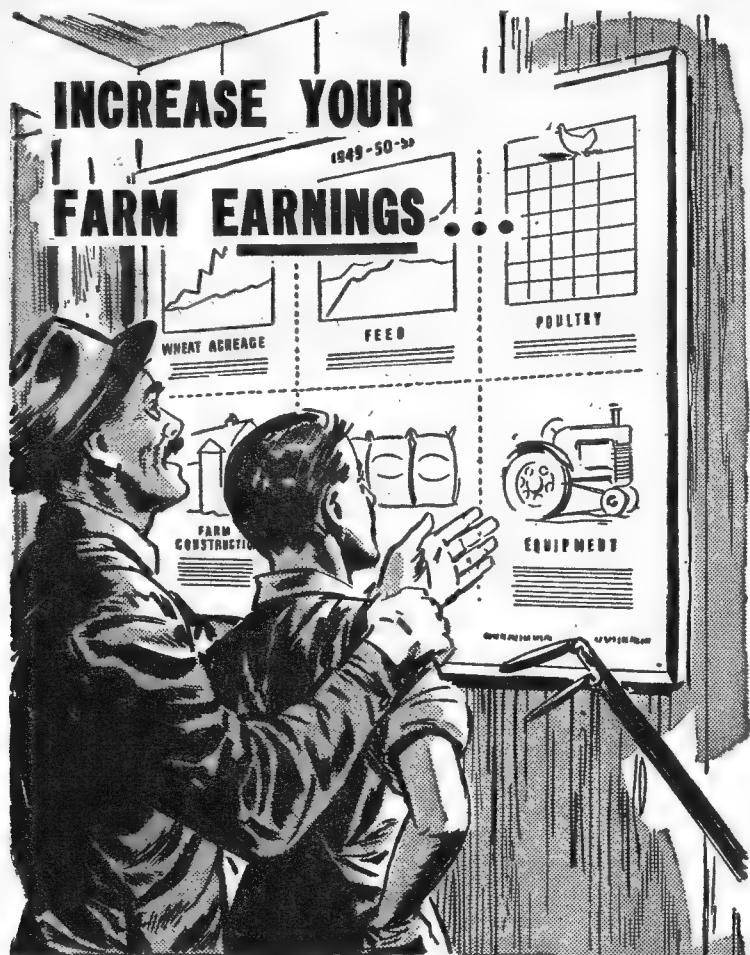
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THE CANADIAN BANK OF COMMERCE

Poison Ivy is still a menace here's how to treat it

—Courtesy C.I.L. Oval.

OF all the skin irritant plants in Canada, poison ivy is one of the worst. It grows under almost any soil conditions — and usually does, much to the discomfort and annoyance of folks on picnics or holidays. When picnickers happen upon what seems like a perfect spot to spread the picnic cloth, their first thought should be of the possible presence of poison ivy. Some people aren't susceptible to ivy poisoning — but don't take a chance in the hope that you may be one of them.

Know the Plant

A better knowledge of the plant *Rhus Toxicodendron* (that's its botanical name!) would in many cases prevent ruined holidays and much painful suffering. Study carefully the illustration on this page and note the following description. The leaves of poison ivy are borne alternately on the stem, and are compound, consisting of three glossy, firm leaflets, having variously course-toothed mar-

they should be changed at least twice a day. After from two to five days, blisters will have formed, and rubbing should be carefully avoided.

Complications occasionally develop when raw surfaces become infected, usually from constant scratching. The matter then becomes one of treating the infection, in addition to the ivy poisoning.

Prevention

The very best preventative of ivy poisoning is, of course, to avoid contact with the plant. However where it is necessary for some reason to go where there is known to be poison ivy, a reasonable degree of protection is possible. The hands and face should be washed with a five per cent solution of ferric chloride in equal parts of water and glycerine. While remaining dried on the skin, it acts as a neutralizing agent in relation to the poison. Considerable protection may also be had by covering the skin



gins. In early summer, clusters of inconspicuous white flowers appear; and are succeeded by dull white fruits the size of a pea. You can be certain as to the identity of poison ivy, because no other plant has at the same time, trifoliate leaves and white fruits. Virginia creeper, which is confused by some people with poison ivy, has five leaflets, and bears clusters of blue fruit on red stalks.

Poison ivy causes a distressing contact dermatitis. The active principle of the plant is an oil which is present throughout root, stem, leaf, flower and fruit. The dermatitis or skin inflammation may be caused either by directly touching part of the plant, or by handling infected objects such as clothing, shoes, tools, picnic baskets, or even the fur of your pet dog.

Treatment of Poisoning

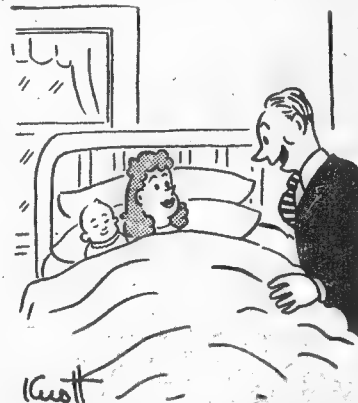
The first sign of ivy poisoning is a mild itchy sensation, followed by the formation of blisters, which upon breaking become painful, oozing sores. If ivy poisoning is suspected, prompt scrubbing with laundry soap in running water is a sensible precaution. If done before the oil has penetrated the skin, no other treatment is usually necessary.

Many treatments for ivy poisoning have been proposed and used. Some are healing agents while others are designed to relieve the irritation. The treatment which is now most widely used calls for swabbing the affected area with a three per cent solution of potassium permanganate, or a diluted solution of aluminum acetate. Wet compresses of either of these solutions are equally effective, and

with a bland oil or grease before risking contact with the plant.

For those who are particularly sensitive to ivy poisoning, an antigen treatment has been developed which makes use of poison ivy extract injections. These are given by a physician in gradually increased doses, and are found to be very effective both for immunization and for treatment.

If there's poison ivy bordering on your garden or in a vacant lot nearby, an easy and inexpensive way to get rid of it is with one of the new chemical weed killing preparations. These are available at a reasonable cost from your hardware or seed store. They're simple to use, too. Take another look at the poison ivy illustration, so that you'll be sure and recognize it.



"Just think - some day he may grow up to be a cattleman and then we can all eat steak!"

Canadian Co-op Congress celebrates 40 years of growth

(Special Correspondence)

THE 40th annual convention of the Canadian Co-operative Congress held in Winnipeg from March 7th to 11th, was probably the best ever held by that association. The congress now includes in its ranks some 922 Co-operative Associations, with a membership of 612,101. Total business transacted by the member co-operatives during the year ended July 31st, 1948, was \$457,503,800. Saskatchewan is the predominant co-operative minded province in Canada with 329 association and 224,949 members transacting a total business of close to \$159 million.

The national co-operative body was organized in Hamilton on March 6th, 1909. Only four persons were present on that occasion, all representing Ontario co-operative stores. Two representatives from Nova Scotia were snowbound, and did not arrive until the meeting was over. George Keen of Brantford, for years editor of the Canadian Co-operator, was one of the four present at the Hamilton meeting. An article by Mr. Keen entitled "A Pioneer Looks Back," was printed in the 1949 convention program and provided a complete history of the congress. Mr. Keen said that during his 37 years tenure of office as general secretary-treasurer, the income of the union provided by its members never exceeded \$6,000 a year and was considerably less in the earlier years. "That has been the weakest spot in the whole movement," said Mr. Keen.

It might be mentioned in passing that the revenue for the year ending December 31st, 1948, was \$36,778.72, and the surplus for that period \$5,012.44.

Roy F. Bergengren, founder of the Credit Union National Association, was present from his home in Vermont and delivered the feature address at the annual banquet. He stated that 12,000 credit unions and their 6 million members in North America now count their co-operative wealth in hundreds of millions of dollars. The consumers' co-operative association organized in 1929 in Kansas City, Missouri, with the initial capital of \$3,000 did a business of \$54

million in 1948, had assets of \$40 million and accomplished net savings for its members of \$8.3 million.

Mr. Bergengren expressed his pleasure in noting that co-operatives in Canada last year did a total business of three-quarters of a billion dollars (this includes co-operatives not associated with the congress). Also that Canadian credit unions have increased their assets to a total of \$221 million.

The speaker pointed out that he did not approve of an one hundred per cent co-operative economy for North America. The Swedish co-operatives, he said, by controlling about 30 per cent of the economy of Sweden pretty much set the standards for the whole economy. "When we are as far advanced in North America we will have turned the fangs of Big Business," said Mr. Bergengren, "then there will be some hope that capitalism will reform on the basis of service to the people rather than the maximum profit which can be exacted from the people."

Co-op. Education

Another feature at the convention was a panel discussion on co-operative education, the chairman being Jerry Voorhis, Executive Secretary, Co-operative League of the United States. Mr. Voorhis is an outstanding man in the co-operative movement and his panel included some of the most prominent educationists in co-operation in Canada and the United States.

Ralph Staples, President, in his annual report, pointed out the need for co-operation between producers and consumers. He cited an instance of a gathering last fall of men representing co-operatives from the Rockies to the Atlantic, to discuss the problem of moving feed grain from the west to the east. They left the meeting baffled with the problem and with very little hope of solving it with the co-operative movement. Mr. Staples said that if the movement cannot solve such a problem within itself that it must give way "to a more dynamic idea to which mankind will have to turn."

The congress convention was well attended and the presence of quite a large number of young people was noticeable.

NATIONAL BARLEY CHAMPIONS



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D. R. CARLYLE

Two young farmers, one from Manitoba and one from Alberta, are Canada's champion growers of malting barley in 1948. In the two competitions of the National Barley Contest sponsored by the Brewing and Malting Industries, EDWARD W. BRADLEY, Portage la Prairie, Manitoba, won the \$1,000 grand prize in the Farmer's Competition which called for a minimum carlot entry of 1,667 bushels. D. R. CARLYLE, Blackfalds, Alberta, won the grand prize, also \$1,000, in the Seed Grower's Competition which called for a minimum entry of 500 bushels.

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Cattle and sheep can sicken and die, if their diet does not contain sufficient cobalt. It has been definitely established that lack of cobalt in the diet of ruminants results in loss of appetite, depraved appetite and anemia. In time, the animals simply stop eating and pine away. That is why this condition is called 'pining disease'.

Since hay and grain are often low in cobalt content, Windsor offers a completely new product that provides excellent protection against cobalt deficiency—Windsor Cobalt Iodized Salt. In it, three important dietary elements are combined—salt, iodine, and cobalt.

There are three forms of Windsor Cobalt Iodized Salt: a loose stock salt for mixing with feed; 50 lb. blocks for the pasture; and 5 lb. licks for the barns and stables. Take advantage of this convenient, economical way of assuring your livestock full protection.



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SALT DIVISION

B.C. ROUNDUP

Good prices at B.C. bull sale; Flood threat looms again

By A. J. DALRYMPLE

BASRAN Brothers, Okanagan fruit growers, who started to develop fine Herefords a few years ago, produced the grand championship steer at the 31st Annual Provincial Fat Stock Show and Bull Sale at Kamloops in March. They also had the second prize animal in the single class.

Helene Turner, daughter of Jim Turner, well known Vancouver Island Shorthorn breeder, contributed a Shorthorn steer in the boys and girls section, which not only won top money for junior exhibitors, but went on to take runner-up position to the grand champion.

T. Eaton Co. Ltd. who made their first entry into Kamloops bidding last year, and paid top money in the fat stock division, continued their policy, and paid 50 cents per pound for the Basran entry. The animal brought \$567.50.

A. Reidemann, Alkali Lake, paid \$3,200 for Bow Valley Standard Lad 33rd, exhibited by P. Burns Ranches, Ltd. It was the highest price, and came within \$300 of the all-time record for Kamloops Hereford Bull sales.

Average price for Hereford bulls was \$674.73, up \$223.73 from the 1948 average. Shorthorn bulls averaged \$567 as compared with \$295.52 last year.

Average price for carlots this year was 21.87 as compared with 17.18 in 1948; groups of five averaged 22.38 this year as against 16.10 last year; open singles and boys and girls competitions averaged 25.80 this year; 18.17 last year.

V. E. Ellison, Oyama, was re-elected president of the B.C. Hereford Association; Bill Dingwall, Lac La Hache, vice-president; Len Wood, Armstrong, executive director; Matt Hassen, Jr., Armstrong, secretary.

More Disease Control

Dr. Wallace Gunn, B.C. livestock commissioner, announces that through a province-wide campaign to combat livestock diseases a number of control areas are being established.

Areas include: Inanoklin Valley around Edgewood; the great Nicola stock range; Alkali Lake-Dog Creek; Cherryville, outside Lumby; Tunkwa stock range at Savona; Horsefly and Rose Lake.

As an example of the program, Dr. Gunn says: "In Edgewood region the incidence of brucellosis was found to be low on blood test, and it was thought best to remove the few reactors and make an entirely clean area; also there are no TB reactors in that area now."

"Edgewood is a dairying-mixed farming area, and along with the program was a movement to comply immediately with milk requirements under the milk act in order to produce high quality milk. This included a program for eradicating mastitis, and living up to grades so that the farmer will have a preferred market for his product."

"When the transition period is over we expect to have a cow-testing association to cover that district. In a few years we will have clean cattle, of one breed, of known production records."

Dr. Gunn makes it clear that the introducing of such programs is being done without embarrassment to farmers; that they have been making their own decisions as to the breeds

they favor, and that they are co-operating to the fullest extent to wipe out disease.

Hop Acreage Up

There will be an increase in acreage devoted to hop culture at Campbell Creek near Kamloops this year, according to Syd Smith, resident officer for Sicks Canadian Brewery Enterprises Ltd.

The corporation has 1,000 acres on the C.P.R. and C.N.R. main lines. There are 630 acres of irrigated bottom lands along the Thompson River. Approximately 70 acres were in hops last year. This year the company plans to crop another 50 acres, and 40 in 1950. They also plan to install another hop picking machine and dry kiln at cost of \$100,000.

There are 889 hop plants to the acre. They use 15 tons of natural manure per acre annually. At present manure is coming from Calgary, Edmonton and Port Mann, B.C. The company intends to establish a herd of purebred Herefords on the plantation in order to have manure on the spot. They will also establish a feed lot on the property.

B.C. Co-operative Union holding fifth annual conference in Vancouver decided to approach the national body with a view to establishing a co-operative bank of Canada.

About 70 persons attended the meetings. They represented agricultural and fishing co-operatives, and they heard addresses from prominent co-operative officials as far east as Winnipeg.

They felt that with 1,000,000 members across Canada, doing \$712,000,000 business per year, they should be able to enter the banking and investment brokerage business, particularly as they wished to enter long term mortgage activities to finance co-operative plant construction.

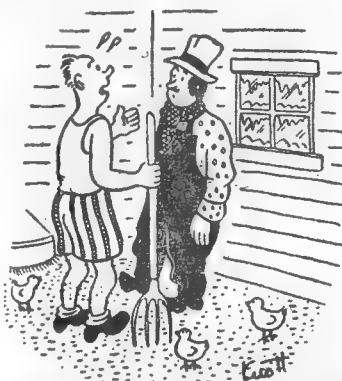
Rooster Market

Poultry production suffered a drop in B.C. due to cold weather and experts are forecasting advances in egg prices this summer and fall. Prof. E. A. Lloyd, University of B.C. has advised farmers to specialize in young roasters for coastal markets. He says the demand has never been satisfied.

Because of the high cost of fish meal and herring scrap, university technicians are testing meat scrap for nutrient value. They have found that horse meat has the same value as beef, but their tests are not yet complete; test program also calls for a break-down on whale meat.

B.C. Poultry Industries Council has decided to intensify campaign for formation of a federal export board to handle shipments of Canadian eggs to all markets.

Approval and Pullorum tests of



"I don't know about the chicks but it's hot enough in here for me."

turkey flocks in B.C. shows that a record has been made in number of turkeys approved for supply of hatching eggs. In 1944-45 a total of 3,455 turkeys were approved for breeders. In 1948-49 the number had advanced to 31,000.

Every review of events in B.C. these days must include the period of transition with everybody sparring for position, and lands in vicinity of cities and towns going out of agricultural production to make way for pensioners' small parcels, and industrial workers who hope to scratch a part-time living from a garden.

Surveys show that agricultural output in Fraser Valley and Vancouver Island have passed their peak and will decline from now on. This province is far short of producing enough food to maintain the ever-growing population.

The province has 1,100,000 acres under cultivation; about one acre per person; and with the cutting of reasonably sized producing units into "back-yard" gardens, the difficulty of disease and pest control intensifies production problems.

In the Okanagan fruit belt the trend is also toward smaller holdings of 50 acres, although the present average is 62.2 acres per farm. But the hundreds of persons who are arriving are clamoring for development of new bench lands so that they may have a chance to operate.

Development of benches in the arid districts requires heavy expenditures for irrigation projects, and government agents are struggling with the problem of how best to tackle it, particularly at a time when a portion of last year's crops remain unsold.

Another Flood

Meanwhile another group of government officials, farmers and businessmen are pondering the possibilities of another grievous flood this year. The dyking program has been carried out with utmost haste. In the Fraser Valley the new dykes, and rebuilt dykes are higher and wider in the worst sectors, but some are not yet completed. Spring weather will tell the story.

Then there is the cry right across the country, to start flood control in the far interior by constructing dams, creating reservoirs, which would relieve the strain on the dykes, and at the same time impound water for irrigation projects. Such a program might be the soundest approach, but figures for such works run into astronomical figures.

The provincial government's \$3,000,000 irrigation scheme would not go very far in a proposition like that, and it will be confined to develop new lands in new districts; to enable existing irrigation districts to serve more land; and to augment the supply of water in areas where it is required.

The P.F.R.A. will also undertake three irrigation schemes in B.C. for Veterans Land Act Administration to provide for watering 3,358 acres at an estimated cost of \$1,000,000.

A number of projects have been recommended and are coming up for review.

Nut Crop Problems

Many persons arriving here and finding tree fruits and berries still unsold, decide they would like to get on some irrigated land and grow nuts; and that is another story with a lot of problems.

It is true that some growers have had successes in production, but not so much in marketing. The industry is in its infancy and growers have to face well established trade channels in order to get into the Vancouver market.

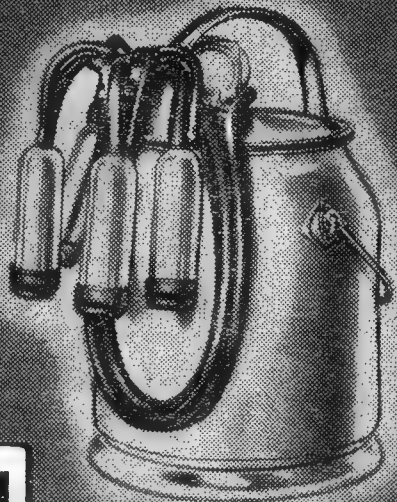
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for **STAINLESS STEEL MILKERS**
that speed up milking Safely

By milking quickly and thoroughly, IH milkers step up your milk production and cut milking time away down. And they guard the health of your herd at milking time with their gentle, massaging action and correct, dependable vacuum. Their stainless steel construction and top sanitation features lead to the production of cleaner, better milk and a surprisingly low bacteria count. You will quickly discover that IH milkers are a real asset in your dairy barn.



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Let B of M money buy your new farm equipment at lowest cost and earn cash discounts. If you need money for any useful purpose to improve your farm, discuss your need with our nearest manager. Ask for our folder "Quiz for a Go-ahead Farmer."

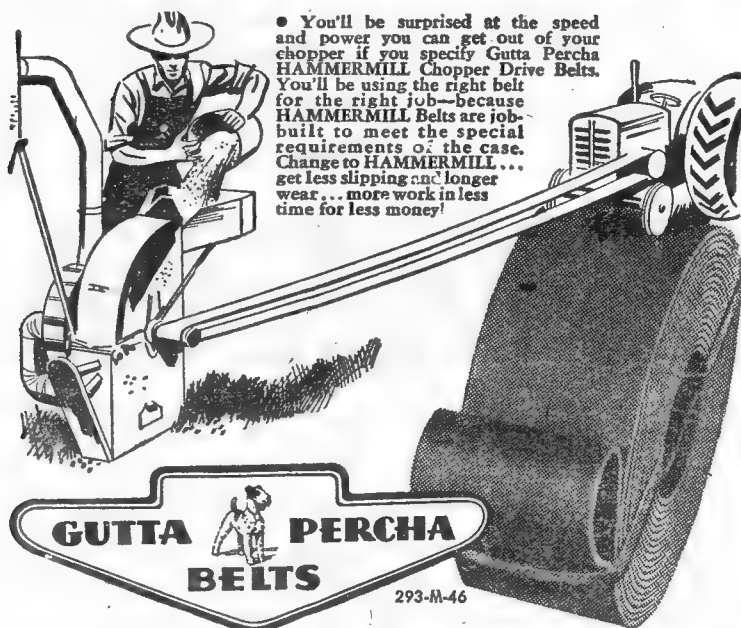
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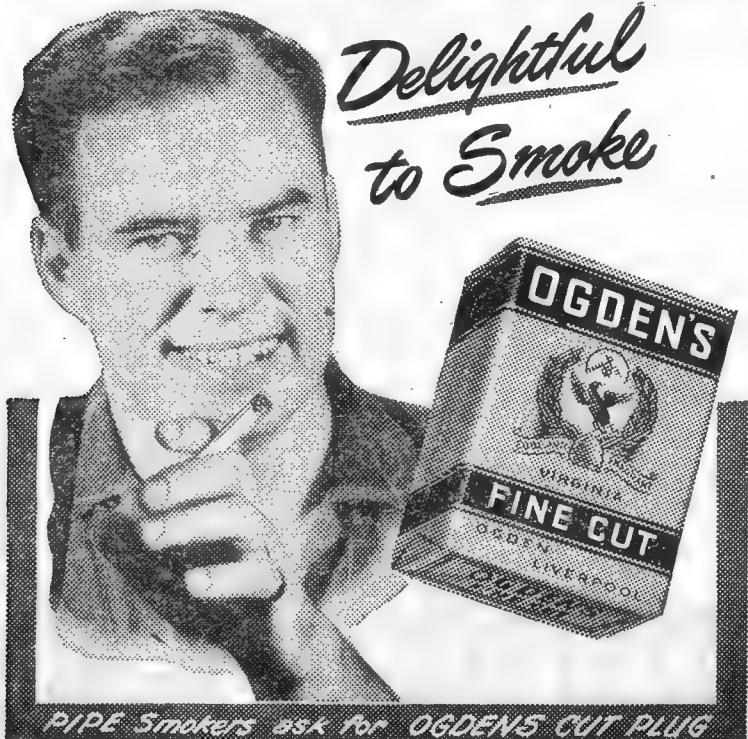
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FINE CUT
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THE EXPERTS ADVISE

A DIGEST OF TIMELY TIPS FROM THE FARM SERVICE BULLETINS

Transferring bees from package to hive

PACKAGE bees are best installed on drawn comb, if this is available. There should be the equal of four full frames of honey from the previous year for feed for the new bees. If drawn comb is not available each frame should have a full sheet of wax foundation. Where frames of honey are not available then provision should be made for feeding the bees until they are able to collect and store nectar and pollen.

The bottom board, hive body and 10 frames should be made ready before the bees are to arrive. They should be placed in a quiet corner of the grounds where they will receive protection from the winds.

When the package arrives, they should be examined at the Express Office, if possible. If one inch or more of dead bees are noted in the cage, it should be made note of by the Express Company and a claim made to the shipper.

As soon as they arrive home the bees should be given a good feed of sugar syrup, using 1 part sugar, 1 part boiling water. The best way to feed them is to brush it on the screen with a small paint brush, or spray it directly on the bees from a garden spray or a large fly spray. It is best to wait until mid-afternoon or later to hive them. They should be fed again before hiving. At this time it is important to give the bees all the sugar syrup they will take, so continue the feeding until the bees will not clean up any more sugar syrup. They are now completely fed and in this condition will accept their queens more readily and will live to better advantage generally.

Steps in hiving are as follows:

1. Remove the lid from your hive and place an empty super over the brood chamber containing the 10 frames which were placed ready for the bees.

2. Pry off the board on top of the package, then jar it sharply to knock the bees to the bottom of the cage.

3. Gently remove the feeder can and reach into the package and remove the cage containing the queen. This queen cage is usually suspended by a wire from the top of the package. Prevent the bees from crawling from the package by replacing either the feeder can or the board which covered the hole.

4. Examine the queen in the cage to see that she is active and in good condition. If so, slip her cage into a pocket to prevent her from being chilled.

5. Remove the feeder can or cover from the hole in the package and shake the bees from the cage directly onto the frames in the prepared hive. By thumping the package sharply with the hand, most of the bees can be easily removed.

6. Spray or sprinkle the bees lightly with sugar syrup to prevent flying.

7. Remove the queen cage from your pocket and spray the queen with sugar syrup. If the syrup is body heat, the queen cage and all may be dipped directly into it, making certain the queen is well covered with syrup. This prevents her from flying.

8. Remove the screen top from the queen cage and allow her to crawl directly down among her bees. Spray lightly again with syrup.

9. Allow 10 to 15 minutes for the bees to crawl down on the combs and then remove the lid, take off the empty super and replace the lid on the hive;

Jar the few bees from the empty super before removing it and replace the cover on the hive. Be careful not to crush too many bees.

10. Reduce the opening in the front of the hive to three-quarters of an inch in length.

11. The colony should not be disturbed again for 7 or 8 days.

If your queen is dead a queen should be ordered immediately. In the meantime, the package can be hived as though a queen were present. Queens can be secured from the Saskatchewan Beekeepers' Association at Fort Qu'Appelle. •

Weeding by Spray Gun

IF you see your neighbor in his garden this summer armed with a spray gun or hand sprayer do not assume that he is after beetles or cabbage worms. It is quite possible that he is weeding.

According to investigations conducted to date the asparagus patch may be sprayed with 2,4-D before the tips break through the soil or after the cutting season. The growing tip will be injured by direct contact. Rows of sweet corn and onions can be sprayed with safety immediately after sowing but the chemical must be kept away from these crops once they have emerged.

Raspberry plantations may be weeded by 2,4-D without fear of injury, as may strawberries except in the runner-making season. Dandelions and other weeds can be removed from beneath apple and evergreen trees and, with discretion, beneath more sensitive plants such as gooseberries, currants and caragana.

Carrots, parsley, parsnip and celery are highly susceptible to injury by 2,4-D but can be weeded by oils such as tractor distillate, stove oil or Varsol. One gallon of liquid will treat 200 - 300 feet of row and there will be very little taint to the vegetables except when used soon after application.

Even a trace of 2,4-D in a watering can may be sufficient to cause injury to highly susceptible plants, hence one sprayer should be used exclusively for the purpose. If necessary, it can be cleaned by several applications of Varsol. •

Nelson Denike at Swift Current

THE Dominion Department of Agriculture announces the appointment of Grant Nelson Denike as Superintendent, Dominion Experimental Station, Swift Current, Sask. Previously Mr. Denike was Assistant Superintendent (Agricultural Engineering) at the Swift Current Station.

14 foods tempt plant palates

FOR nearly a hundred years, manufacturers have been bagging fertilizers and selling them to farmers and gardening enthusiasts. Yet today, there is still much confusion and doubt in the minds of many as to what's in the fertilizer bag, what kind of fertilizer to use, and how to use it.

The fourteen plant foods which are regarded as essential for plant growth are nitrogen, phosphorus, potassium, calcium, oxygen, hydrogen, carbon, magnesium, iron, sulphur, boron, manganese, copper and zinc. Soils generally, are most frequently deficient in the first three. Consequently, fertilizers are generally used to supply these three foods either singly or in combination.

Those containing all three constituents are known as complete fertilizers. Their analysis is expressed by a numerical formula which represents the percentage of each food present. Thus a hundred-pound bag of 10-5-10 fertilizer contains ten pounds of nitrogen, five pounds of available phosphoric acid and ten pounds of water soluble potash. It is interesting to note that one ton of the average farm manure contains about the same amount of plant food as a hundred-pound bag of 10-5-10.

The first food mentioned, nitrogen, comes in many different forms in fertilizers. It may be in the nitrate form as in nitrate of soda. In this form it is quickly available to the plant but unfortunately is readily leached out. Nitrogen, however, is most frequently applied in the form of ammonia or its compounds. This form is also quickly available but less readily lost. Nitrogen may also come in the organic form as in urea, tankage, vegetable and animal materials. Since organic nitrogens are much more complex, they become available more slowly and require bacterial action to change them into nitrate or ammonia compounds. Nitrogen stimulates growth and is therefore very effective as a grass nutrient.

The second food, phosphorus, is a very essential constituent of plants and animals. Bones were the original source of phosphorus, as a fertilizing material. Legumes, grasses and cereal grains remove large amounts from the soil. Most phosphate is used in the form of superphosphate, which is phosphate rock treated with sulphuric acid. Another common phosphatic fertilizer is ammonium phosphate 11-48 which contains eleven per cent nitrogen as well as forty-eight per cent phosphorus. Other phosphatic fertilizers are bone meal, basic

slag (by-product of the steel industry) and finely ground phosphate rock.

The third major plant food, potassium, is sold mainly in the form of potassium chloride or muriate of potash. Other sources are potassium sulphate, potassium nitrate (salt-petre), sea weed and wood ashes. On potassium deficient soils, crops such as legumes, roots and small grains respond to potash with increased growth and vigor.

Very little has been said of the effects of any individual plant food. However, it will be recognized that each has an important function in the growth of the plant, and that each must be applied in the proper proportion after careful consideration of the plant's need. To do this in the most economical manner, close attention should be paid to the analysis of the material in the fertilizer bag.

Compna Barley for Alberta Dry Belt

COMPANA is a new, two-rowed, semi-smooth barley variety which is being grown extensively on dry land in Montana. It has been grown to some extent in Southeastern Alberta and Southwestern Saskatchewan and has performed very well in comparison with other varieties. This variety was licensed for sale as seed in Canada in 1948, and is recommended in Zone 1, which is the dry area of Alberta.

Compared with Glacier, Compna yields more under dry conditions such as those encountered in Southwestern Alberta. Where moisture conditions are more favorable, the two are about equal in yield, while under relatively moist conditions Glacier is usually higher. Under all conditions, however, Compna is higher in bushel weight and has less hull. Compna also threshes more easily than Glacier and is much more resistant to loose smut. Glacier is not licensed for sale as seed in Canada because it is not widely adapted and is highly susceptible to loose smut.

In tests conducted by the Experimental Stations at Lethbridge and Swift Current, Compna has out-yielded Titan in the very dry areas of the Brown Soil Zone. It produces a relatively good yield of grain with a high bushel weight even under very dry conditions. Since Compna does not shatter or lose its heads readily, it can be straight combined without much danger of loss from wind damage.

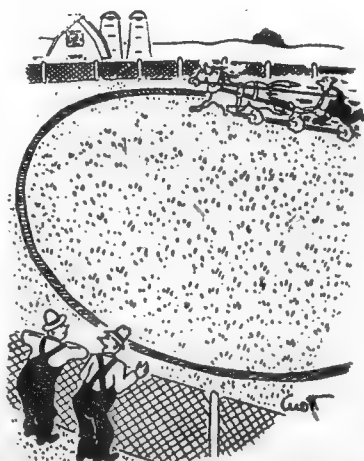
Compna is very weak in the straw and is not suitable where moisture conditions are such that lodging is a problem. It is moderately resistant to loose smut and moderately susceptible to covered smut.

Iodine in Salt is Easily Lost

STUDY by scientists of the Dominion Department of Agriculture shows that iodine in salt can be easily lost. They found, for instance, that all the iodine in salt blocks had disappeared in two months after exposure in pasture, and that there was no chemical method of preventing this loss. The answer is to only put out at a time, as much iodized salt as the animals will lick up in a few days.

When fed in the stall, salt loses its iodine less rapidly, but no more than can be consumed in two months should be used at a time.

Iodized rock salt will keep well for about nine months if stored in a dry place in its original container. Loose salt containing iodine will remain stable up to 15 months if kept in tightly closed glass jars.



"Looks like we'll never break that ex-race horse to plow."

CONDITION YOUR HORSES BEFORE starting spring work

Veterinarians advise farmers to clip their horses and blanket them when necessary. In the spring when they are soft, not used to hard work, and with the weather suddenly warm, many a horse goes down simply because of that winter coat of long hair. When working, the unclipped horse sweats excessively and weakens. At night the sweat-soaked, long hair becomes icy cold—shivering discomfort prevents proper rest.

Clipped horses sweat less, dry off quickly, can be groomed better and in half the time. Clipping and good grooming act as a tonic and give you a healthier, harder-working horse.



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hand power clipping machine. Where electricity is not yet available this is the best machine for years of fast, even clipping. Ball-bearing, easy to turn. Gears, cut from solid steel, enclosed and protected from dust. Widespread tripod base with sturdy, tubular upright. Complete with 6-foot flexible shaft and latest D1 clipping head.

Sunbeam STEWART CLIPMASTER

Electric one-hand machine. Fan-cooled, ball-bearing motor in easy-grip handle which is only 2 inches diameter. Works from light socket. AC or DC, 110-120 volts. (Other voltages at slight extra charge.) Easy adjustment and perfect tension between blades. Smooth-running, quiet. CSA approval No. 3100.



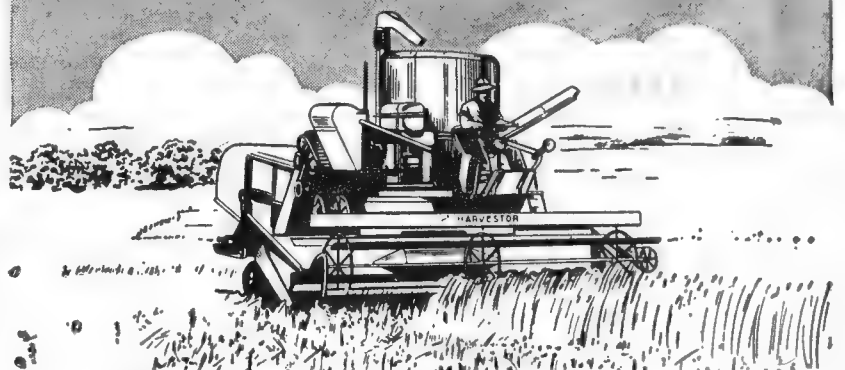
World's Fastest Animal Clipper CLIPS HORSES, COWS, DOGS

SHEEP SHEARING

Attachment to fit above machines is available. Gets more wool than hand blades, leaves no ridges. Longer staple wool brings better price. Sold through hardware and farm equipment dealers.

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Hitch up to huskier harvest profits with the MM Self-Propelled Powerflow HARVESTOR, the modern mechanized way to get all the crop with economy of time, labor, and money. Harvest more acres easier with less waste of time.

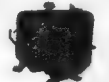
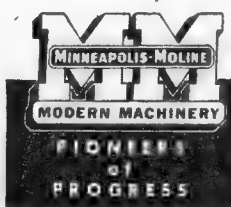
Quality MM features permit MM Self-Propelled HARVESTOR to open new fields without damage to crop... to cut parts of the field that ripen ahead of the rest... to handle irrigated fields easily by gliding over levees and borders. MM's Self-Propelled HARVESTOR saves manpower—only one man required—saves fuel—one engine provides both motive power and power for unit—saves your tractor for other jobs in harvest time, saves time by unloading "on the go" or through large capacity unloading auger when standing still.

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MM's Self-Propelled HARVESTOR has balanced weight and power. Header, cylinder, cleaning shoe, and cleaning fan are easily adjusted to meet all combining conditions on all grain and seed crops. Harvesting, threshing, separating, and cleaning are in one continuous, straight-through operation. MM's HARVESTORS from the "small farm" "69" to the mighty Self-Propelled are built to get all the crop. Get facts on new MM HARVESTOR features including Uni-Matic hydraulic controls available on all models.

Heavy-duty steel frame withstands severe strain under rough working conditions. Anti-friction ball and roller bearings are used on all high speed or heavy-duty shafts. Six cylinder heavy-duty engine is easily accessible for quick servicing.

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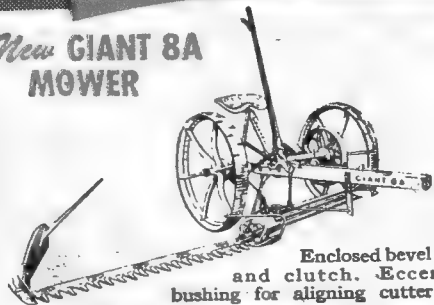
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PAVE THE WAY TO BETTER HAY

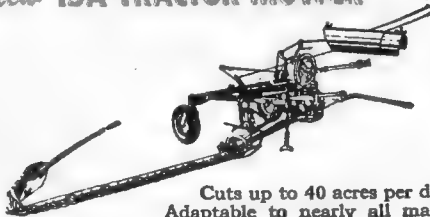
and greater profits!

New GIANT 8A MOWER



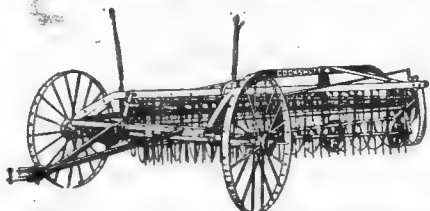
Enclosed bevel gears and clutch. Eccentric bushing for aligning cutter bar.

New 15A TRACTOR MOWER



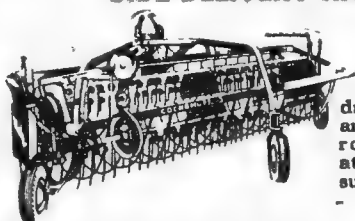
Cuts up to 40 acres per day. Adaptable to nearly all makes of tractors.

New "4" SIDE DELIVERY RAKE



4-bar cylinder gives greater capacity. Main bevel drive gear and pinion enclosed in oil bath.

New "5" 4-BAR POWER TAKE-OFF SIDE DELIVERY RAKE



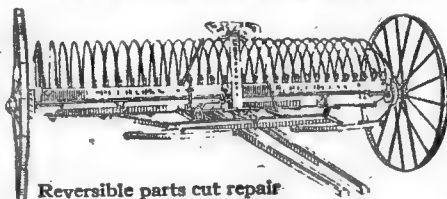
Positive, uniform P.T.O. drive—extra clearance for large windrows. A tedding attachment can be supplied.

"3" COMBINATION CYLINDER and PUSH BAR HAYLOADER

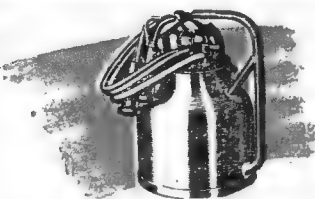


A solid deck model that picks up all the hay, saves all the leaves.

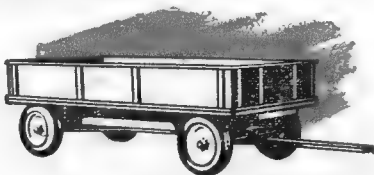
"PEERLESS" SULKY RAKE



Reversible parts cut repair costs in two. Foot lever control for dumping and bunching windrows.



Cockshutt Conde Milker—A milker that has earned the unqualified endorsement of thousands of leading dairymen in Canada and the United States. The Cockshutt Conde milks faster and cleaner, increases production. Large, smooth milk passages and seamless construction mean faster, easier cleaning, lower bacteria count. Exclusive Cockshutt pulsator requires no adjustment, admits only pure, filtered air. Single or Double Milking Units can be supplied.



Cockshutt "95" Farm Wagon—the best dollar for dollar hauling equipment you can buy. Check these features for better hauling in both on or off the road farm operations . . . shorter turning radius—lower loading height—better roadability—rugged, welded, all steel construction—automobile type front end—adjustable bolster—stakes—Oilite bushings that eliminate greasing—one bolt adjustment feature changes wheel base from 7 to 11 feet in one foot stages.

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Cockshutt Haying Machines get the most from your crop . . . get it cut, off ground and under cover—when it's ready—leafy green, properly cured; high in market and feeding value.

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Cockshutt Make a full line of haying equipment, partially shown above.

Cockshutt tractor or horse-drawn mowers are smooth-running, light-draft, well-balanced units . . . with immediate "pick-up". Cockshutt Rakes, made in sulky or two new side delivery models, are cleaner raking—form light, airy windrows. Cockshutt Hayloaders pick up all the hay and save the leaves.

Farmers like Cockshutt Haying Equipment for its efficiency. Ask your Cockshutt Dealer for full information on models shown and also on the lower priced "2" Hayloader.



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COCKSHUTT

FARM EQUIPMENT

See your friendly
Cockshutt dealer for details.
He'll be glad to help you in any way.

PARTNERS OF CANADIAN FARMERS FOR 110 YEARS

Control of weeds by 2,4-D described in new booklets

TWO illustrated booklets describing the uses and application of 2,4-D—one for general distribution and the other suitable for municipal officials—have just been published by the Publications Branch of the Manitoba Department of Agriculture.

"Questions and Answers on 2,4-D" is the name of a 16-page summary of problems likely to confront the farmer. Questions are classified under such headings as susceptibility of weeds, different forms of 2,4-D, field use of 2,4-D, machines for applying the chemical and the control of woody growth.

Two full page tables are included in the booklet. The first lists trade names of different 2,4-D formulations, with instructions for mixing and use of the chemicals. The second classifies weeds and woody plants of western Canada according to their reaction to 2,4-D.

The questions were compiled and answered by H. E. Wood, Chairman of the Manitoba Weed's Commission; P. J. Olson, Professor of Plant Science, University of Manitoba; and G. L. Shanks, Professor of Agricultural Engineering, University of Manitoba.

The amount of chemical to apply, the sprayers best suited for penetrating dense foliage, most effective time for treatment, and approximate costs are all dealt with in the pamphlet.

Both booklets may be obtained from the Publications Branch, Manitoba Department of Agriculture, Winnipeg. ●

Farmers buy new field machinery

ALBERTA farmers are putting a lot of their increased income from agricultural products into farm machinery of the most modern design.

Professor E. A. Hardy of the University of Saskatchewan gave some idea of the extent of these new machinery operations when he addressed the Edmonton Agricultural Short Course.

Last year, Alberta farmers bought 8,025 new tractors, 3,163 combines, and 420 threshers and tillage machines.

There are now 50,000 tractors being operated on Alberta farms supplying power for 89,561 occupied farms. The figures would indicate that some of the tractor owners are helping their less fortunate neighbors.

A survey also showed that rubber-tired tractors have greatly increased efficiency of operation, increasing power by 25 per cent over the steel-tired type.

By the increased use of modern farm machinery, Alberta farmers have been able to reduce their crop costs considerably and also to increase the quality of their output. ●

Seed at cost for Sask. farmers

REGINA. — Increased forage crop production in Saskatchewan was urged by Field Crops Commissioner W. H. Horner, in announcing that seed mixtures will be supplied to farmers at cost price by the provincial department of agriculture under the 1949 forage crop program.

Prices of seed mixtures will be considerably higher this year because of a very strong export demand for alfalfa and brome grass, the commissioner said.

Here's a new design for efficient poultry houses

COLD, drafty housing for stock and poultry is undoubtedly one of the farmer's worst enemies. It produces high mortality rates, slow growth and poor production, can spell the difference between red and black ink on the year-end ledger.

A little careful planning, with an eye on modern materials and recent research into farm construction, will beat this bogey.

One device worth considering is arched roof construction for farm buildings such as poultry houses, hog houses, brooder or laying houses and for implement sheds and similar buildings.

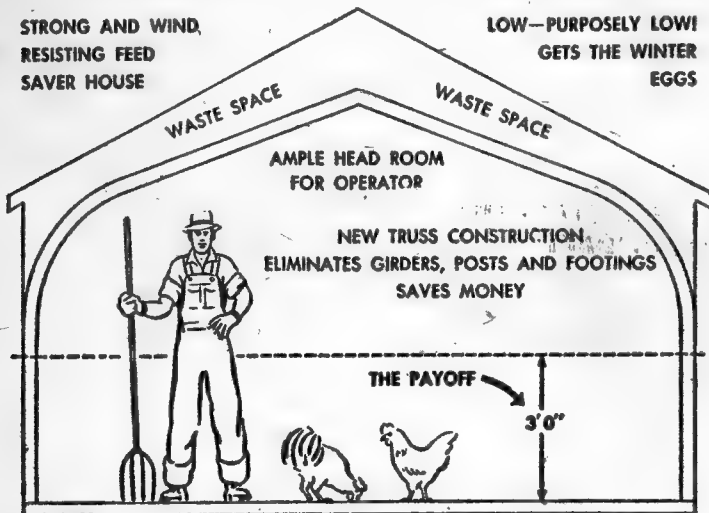
In any gable roof there is "dead-

roof as difficult to construct. There are many plans now available which provide low-cost housing with this feature, and modern building materials simplify construction. One such material is Presdwood board, which, though an all-wood product stronger than natural lumber, can be easily bent to a curve by simply nailing over the framework. A processed wood product, Presdwood is made in four-foot-wide panels and in lengths up to 16 feet. Use of large panels in siding and roofing makes for more rigid construction, and cuts down the number of joints where drafts develop and warm air escapes.

Like all building materials Presd-

STRONG AND WIND,
RESISTING FEED
SAVER HOUSE

LOW—PURPOSELY LOW!
GETS THE WINTER
EGGS



LESS SPACE TO WARM—LESS HEAT TRANSMITTING AREA
WARMER IN WINTER—COOLER IN SUMMER

air space" near the peak, un-needed space which draws heat from the area where the stock actually lives. Arched roof construction cuts this waste space to a minimum. Keeping the roof low (while maintaining ample head room) makes heating problems easier, adding to comfort of stock and poultry. A simple ventilation system which will ensure a steady supply of fresh air without drafts is easy to plan.

Some farmers avoid the arched

wood has been in short supply for years. Recently the Masonite Company of Canada, makers of Presdwood, completed major expansion of their Canadian mills, doubling its original capacity. Output is now considered adequate to meet all requirements in the domestic and export markets.

With modern planning and materials the farmer can do much to eliminate the "poor housing" factor from his list of profit reducers.

More traffic over H. B. Route?

REGINA — Inward traffic is expected to be much heavier via the Hudson Bay route in 1949 as a result of increased savings in freight charges on goods imported through Churchill to points in Saskatchewan last year, according to Co-operative Minister L. F. McIntosh.

Quoting statistics compiled by the Saskatchewan Trade services division, the Minister said that importers in the province saved approximately \$12,000 in freight charges by using the Bay route in 1948. Total freight charges on 774 tons of merchandise shipped from Churchill to distribution points in Saskatchewan amounted to \$25,963 while the cost from Montreal by lake and rail would have been \$37,758, he said.

Because of the shorter rail haul from Churchill, the 21 per cent freight rate increase allowed in 1948 resulted in increased savings in freight charges on goods shipped via the Hudson Bay railway, Mr McIntosh explained.

Saskatchewan imports accounted for 80 per cent of the total inward tonnage through Churchill in 1948.

Using a shipment of curling stones for the purpose of comparison, Mr. McIntosh pointed out that total transportation costs from the United Kingdom to Regina via Churchill amounted to \$1,300 compared to \$1,575 via Montreal. The difference would have been even greater if insurance rates or cargo to Churchill had been the same as those applying on cargo to Montreal, he added.



"I'm building the house around it to save the trouble of lugging Christmas Trees in and out every year."

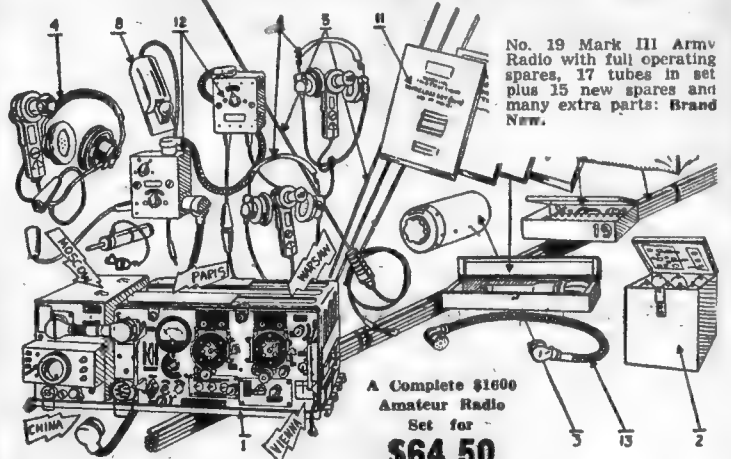
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WAR SURPLUS RADIO PARTS BARGAINS

"ONCE IN A LIFETIME SPECIALS"

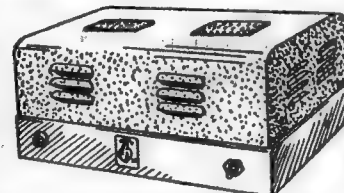


No. 19 Mark III Army Radio with full operating spares, 17 tubes in set plus 15 new spares and many extra parts: Brand New.

A Complete \$1600
Amateur Radio
Set for
\$64.50

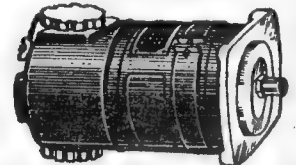
This station comes complete with Receiver and Transmitter (2-8 Mega.) and includes battery operated dynamotor supply, microphone and headphones, aerials, spare tubes, junction box, cables, etc. Ready for operation. Complete instructions for obtaining an amateur radio station license, also instructions for setting up this station with diagram. (Amateur license is necessary to operate as an amateur station).

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115 VOLT 60 CYCLE
POWER SUPPLY FOR 19 SET
At last! Three months of painstaking research has finally developed a fool-proof Power Supply circuit for the owners of No. 19 Sets in 115 volt, 60 cycle supply areas. Just plug in, in place of dynamotor supply. Complete with instructions and tubes, **\$40** and fully tested.

LIGHTING PLANT



May be used to supply power for No. 19 Set above. Just drive generator from any gas engine (1 1/2 H.P. or up), and connect generator output to two standard 6 volt storage batteries. Kit of parts includes a new 12 volt, 750 watt precision built Aircraft generator, pulley, automatic cut-out and control box, ammeter and full instructions **\$24.50**

New 6 volt, 65 amp. Hr. Storage Batteries—\$12.00 each additional.
24 VOLT GENERATOR, 3000 WATT
May be used as above system or as welder. Will supply up to 200 amperes. Used but serviceable. **\$25.**
with drive pulley

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No. 16 stranded 3 conductor, rubber and plastic insulated, 300 ft. roll **\$10**

No. 18 No. 20 stranded finest quality fibreglass insulated, electrical and radio hookup wire, 15 different color codes, 100 ft. for **\$1**

No. 12 standard insulated wire. Ideal for wiring buildings, etc., for above 12 or 24 volt lighting system. Per 100 feet **\$3**
(Also many other wire sizes in stock)

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NOTE: Please send full purchase price or 25% deposit with order. No C.O.D. Orders filled in rotation, F.O.B. Winnipeg. Eastern orders for No. 19 Set. F.O.B. Montreal warehouse.

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*than any other
make...*



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Heavier, balanced crankshafts give extra work reserves.

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Full Floating Rear Axles for longer life.

* EXTRA STRONG FRAMES

Give a wider range of use in all models.

* "MILLION DOLLAR" CAB

For "Living Room Comfort" . . . Level action cab suspension.

* EXTRA EASY HANDLING

Heavy-duty roll action steering linkage
"Feather Foot" Hydraulic Brakes
Gyro Grip Clutch for low pedal pressure.

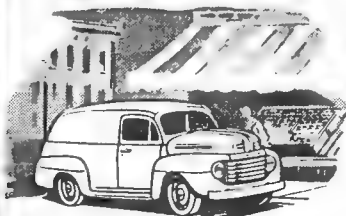
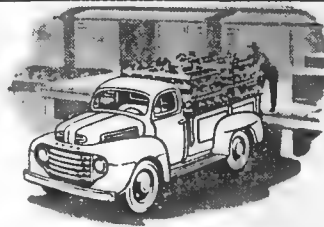
*BONUS: "Something given in addition to what is usual or strictly due."

—Webster's Dictionary.



I LIKE VERSATILITY!

Little wonder that Canadian farmers use this Ford F-47 Pickup Truck on more kinds of jobs. It's the leader in wide utility—and in savings on gas, oil and upkeep.



SAVINGS WITH STYLE, FOR ME!

Extra-smart appearance makes the Ford F-47 Panel a distinctive truck for specialized hauling—its low operating costs look good to owners, too. Extra handling ease on every road.



I NEED ALL-ROUND UTILITY!

There are dozens of different jobs a Ford F-135 Chassis and Cab does best! Owners choose the F-135 for lower costs, longer life and a wider range of use around the farm.



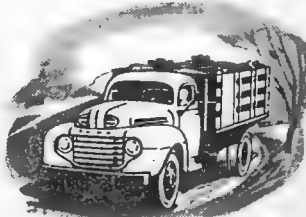
MY TRUCK MUST HAVE STAMINA!

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INTERNATIONAL COMMENTARY

North Atlantic Alliance aimed to halt Russian aggression

By BEN MALKIN

A NEW world balance of power was forged last month with the final drafting of the North Atlantic alliance. Some of the major western countries — the United States, Britain, Canada, France, Belgium, The Netherlands and Luxembourg have agreed to stand by each other if any of them is attacked. At Canada's suggestion, the treaty will be reviewed within 10 years, and perhaps, if it is considered by then that the United Nations is sufficiently strong to maintain peace, it will be revised. Meanwhile, such countries as Denmark, Norway, Portugal, Iceland and Italy are considering joining the alliance.

This new power grouping is meant as a warning to Russia that aggression from eastern Europe will be resisted by a large number of countries, acting collectively. It is meant to stop Russian aggression, and probably it will. There is always the danger, as with all alliances formed originally for defence purposes, that this new grouping will eventually feel itself so powerful as to become an aggressor itself. But this is only a remote possibility in the present instance, and need not be seriously considered.

The alliance contains economic clauses whereby the signatories will co-operate with one another in matters of trade and industry. From the short-term point of view, the military aspect of the alliance is the most important. But in the long run the economic considerations will be vital, for if communism is to be defeated, it will not be done by the negative method of maintaining a large military establishment; it will be done by raising the standard of living of people everywhere, so that Communism can no longer exercise the strong appeal which it admittedly has for the destitute and hopeless.

The immediate cost to Canada of membership in the alliance will be approximately \$100,000,000, for that is the increase in the 1949 defence budget over 1948. It is a reasonably small sum to pay for the added security of the alliances. The money will not necessarily be spent on expanding the armed forces, but rather on equipment and research, so that Canada's strength in machines and in knowledge of modern methods of warfare will keep pace with that of the rest of the world.

Quiet Winter

Apart from the final drafting of the North American security pact, the past few weeks have been relatively quiet. Israel and Egypt signed an armistice at Rhodes, and brought a

permanent peace settlement in the Middle East closer. Trans-Jordan and Israel started negotiations with a similar end in view.

In the Far East, the Chinese Communists continued to consolidate their positions around Peiping, and were preparing to take over the capital, Nanking. They were getting tough with all foreigners except the British, who had not interfered in the Chinese civil war and who had tried to maintain reasonably friendly business relations with both the central government of Generalissimo Chiang Kai-shek, who has now resigned as president of the Chinese republic, and the communists. Most of the Communist hostility appeared to be directed against the Americans, who have poured \$4,000,000,000 into the central government's treasury, with no return whatever on their investment.

In Indonesia, the Netherlands government still declined to negotiate with the natives on anything except Dutch terms. The Dutch had an army of around 150,000 tied up in the East Indies, together with large quantities of equipment. Pressure was being exerted by the United Nations and the United States of Indonesia which would be a new, sovereign country, but so far without much effect. Meanwhile, a number of countries in south-east Asia, including Australia and India, were considering forming some sort of alliance against outside domination and possible Russian aggression.

The last few weeks of winter, therefore, marked something of a lull in the turmoil that has seized the world since the end of the war. But with the drafting of a North Atlantic alliance, it also marked a major crossroad in history. Until now, for example, Russia's policy has been clear. It has been to harass and embarrass the West as much as possible, on the theory that the West was due for economic and military collapse in any event. This new alliance would indicate that such a collapse is far from an immediate possibility. That being the case, the Russians may now well be persuaded to revise their foreign policy in the light of new conditions. It may be that they may now decide that since their hard policy against the West has only resulted in hardening, instead of softening, their target, the time is opportune to initiate a period of friendliness, if not actual co-operation. Time will tell whether this theory is correct.

Whatever the Russians decide to do, however, the western countries may be expected to be wary.

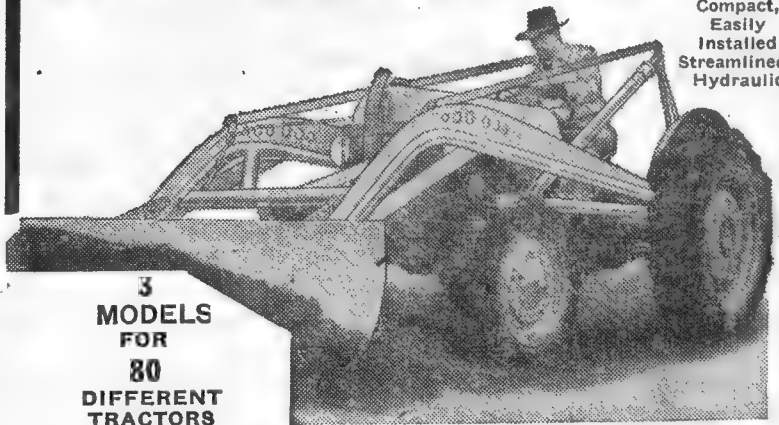
LAST MONTH'S SOLUTION

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HORN-DRAULIC LOADERS

Compact,
Easily
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3
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FOR
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FOR SMALL STANDARDS

A YEAR 'ROUND FARM IMPLEMENT!

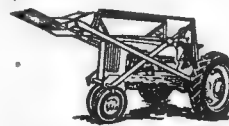
The Horn-Draulic Loaders, the original twin cylinder hydraulic loader is precision built to give you years of sturdy service. Designed for all around farm use the Horn-Draulic will eliminate "extra hired hands" and will perform thousands of farm tasks easily and efficiently.

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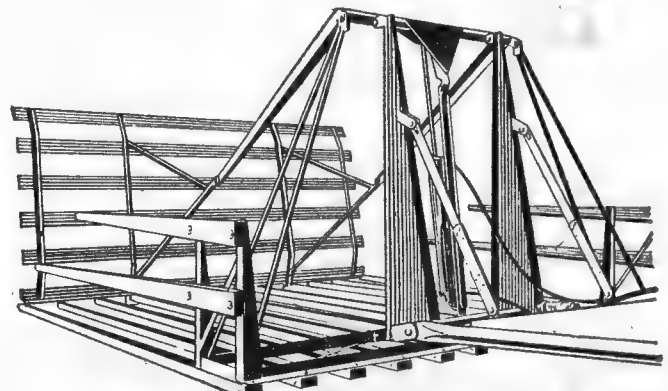
Ford, Ford-Ferguson,
Ferguson, Case, Allis
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★ HORN-DRAULIC LOADERS feature 8 outstanding, labor-saving attachments, designed for simple installation and operation.

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PUSH-OFF STACKER ATTACHMENT

Tested by hundreds of farmers the Horn-Draulic Push-Off Stacker offers a one-man hay operation. Hydraulic controlled the "Push-Off" will stack high. Smooth operation another reason for specifying HORN-DRAULIC. HORN is the world's largest manufacturers of Hydraulic Loaders.

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LEONARD & McLAUGHLIN MOTORS LTD.
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NANCE COMPANY
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PIGOTT TRUCK & TRACTOR CO. LTD.
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Standard and Row Crop Loaders.

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City Province

●**CHEMICAL**—Ester 2,4-D — Dust and Liquid. Special prices.

●**SPRAYERS**—For WEED and GRASSHOPPER control. Strong, durable, practical, no gadgets to go wrong. Built to last under rough field usage.
\$184.50

●**T & T DUSTERS**—For WEED and GRASSHOPPER control. No water problems; faster operation.
\$359.00

●**CUSTOM TREATING**—We'll do your fields when they should be done. No waiting. Prompt service. Trained operators. Best equipment. As low as \$1.20 per acre. Special rates for large acreage.

Book Now for WEED and GRASSHOPPER Control!

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WE HAVE THEM!

WISCONSIN Air-Cooled ENGINES

ALL SIZES — 2 to 30 hp., Single & 4-Cyl. Models

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BRUCE ROBINSON ELECTRIC LTD.

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WETMORE The HAMMERMILL with KNIVES

The WETMORE Hammermill grinds Roughage—Wet... Green... or Dry... saving grain in your feeding program!

SIMPLE

Only ONE moving part... No separate fan.

STURDY

All steel heavy construction means long life.

EFFICIENT

The Wetmore grinds grain to any degree of fineness. They grind all feeds, grain, roughage and hay.

We challenge you to try a Wetmore Knife-Type against any mill on the market.

FAST

Users report a barge load of bundles ground in 10 to 15 minutes... a wagon load of ear corn ground in 10 to 20 minutes.

LOW IN COST

Mass production and our direct-from-factory-to-dealer distribution plan keeps prices low!

GUARANTEED to do all we claim for it or it is our mill!

Let us show you the 35 superior and exclusive features of the Wetmore Knife-Type Hammermill

WATERLOO MACHINERY (Alberta) LTD.

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EDMONTON, ALBERTA



Spraying calendar for livestock parasites

Time of Treatment	Treatment Formula	Procedure
Parasite—Warble Fly, Cattle Grub and Heel Fly		
March	Power Spray	Maintain at least 400 lbs. pressure with a 5/64 disc and the gun held 18 to 20" above backs. First treatment when first grubs mature, followed by two to three treatments at 30-day intervals.
April	Mixture	
May	Warble Powder	
Parasite—Horn Flies.		
June	8 pounds of	Maintain 400 to 500 lbs. pressure with No. 4 discs on a 2 or 3 nozzle broom, spraying the backs at the rate of 1 to 2 quarts per animal. First treatment when flies become troublesome and as often as necessary thereafter. Spray when fly counts on three consecutive days are over 25 flies per animal.
July	50% wettable	
August	DDT to 80 gals. water	
Parasite—Stable Flies, House Flies, Mosquitoes		
June	4 lbs. 50% wettable	Maintain 400 to 500 lbs. pressure with a 2 or 3 nozzle broom and No. 4 discs. Start treatment when flies first appear. Spray the entire animal using 1 to 2 gals. of spray. Make additional treatments as required. Spray all outhouses, barns, pig pens, etc., both inside and outside. Spray all vegetation around barns and buildings up to a height of 8 to 9 feet for adult mosquito control.
July	DDT in 80 gals. water	
August		
Parasite—Sheep Tick		
May	4 lbs. 50% wettable	Maintain 400 to 500 lbs. pressure using a 2 or 3 nozzle broom with a No. 4 disc. Cover sides and back, brisket and over head. Use ½ gal. mixture per animal. One treatment should give control.
June	DDT in 80 gals. water	
July		
August		
September		
Parasite—Cattle Lice		
September	8 lbs. 50% wettable	Maintain 400 to 500 lbs. pressure using 2 or 3 nozzle gun with No. 4 disc. Apply 1 to 2 gals. per animal. Cover entire animal. One treatment should give control.
October	DDT in 80 gals. water	
November		

Eggs stored large end up keep best

THERE is a right and wrong end up for keeping an egg in best condition. The large end of the egg should be up. Packing eggs in this position is emphasized in all U.S. Department of Agriculture advice on marketing eggs. Even in keeping eggs for any length of time in the home refrigerator, large end up is the best position for holding quality.

The large end of the egg normally contains the air cell which should be on top as the egg stands. If the large

end is down, the weight of the egg presses on the cell, causing the air to rise and gradually loosen the membrane. At the same time the yolk, because it is lighter in weight than the white, rises from its normal position in the center of the egg to the top or small end. There it may stick to the membrane so that it is difficult to remove the egg from its shell without breaking the yolk. Eggs with yolks out of position are lower in grade than eggs with yolks in the center. ●



A TREE IS SWAYED BY THE WIND THUS KEEPING LOOSE THE EARTH AROUND ITS ROOTS. THE RAIN TRICKLING DOWN THE TRUNK FINDS A READY ENTRANCE INTO THE GROUND THEREBY REPLENISHING OUR SPRINGS AND WELLS. THE FOLIAGE BREAKS THE FALL OF THE RAINDROPS, PREVENTING EROSION

THE TREE IS ONE OF THE GREATEST WEIGHTS IN THE BALANCE OF NATURE.

—ED MONTAGUE—

Emergency feeds

A limited supply of hay or straw can be materially stretched by the use of a number of concentrated emergency feeds. These include oilcake and oilmeal, cereal grains and mill feeds. By liberal use of these feeds in wintering livestock, it is possible to cut the roughage requirements in half. Thus a month's supply of rough feed can be made to last for two months, and by that time green grass will not be far off.

The amount of concentrated feed that will be required depends upon the condition of the stock and the severity of the weather. Calves will do well on a limited amount of roughage, plus 3 to 5 pounds of grain or 1 to 2 pounds of oilcake. Daily gains of 1 pound per day are possible for calves when they receive adequate roughage in the form of grass or hay, plus 2 pounds of oilcake. Increased quantities of these feeds will be needed to do the same job on older stock.

When livestock become emaciated as a result of too much winter, it is practically out of the question to get them back on their feet with roughage of indifferent quality. The feeding of concentrated feeds, containing extra protein, is essential in such cases. ●

Treat Barley Seed Annually

SMUT of the type that can be controlled by ordinary seed treatment is on the increase in Manitoba barley fields. Infections as high as forty per cent were observed in some fields in 1947. The average occurrence of smut in the fields examined was approximately five per cent. Covered smut was again widely prevalent in 1948. The Line Elevators Farms Service, as a phase of their seed testing work, have analyzed many barley seed samples from points in Western Canada for presence of smut. It was found that only five per cent of the samples received from the 1945 crop were free from smut and that 59 per cent of the samples required seed treatment. It was also found that approximately 60 per cent of the 1946 and 70 per cent of the 1947 samples examined required seed treatment.

Use an organic mercury dust, applied at the rates of at least one-half ounce per bushel several days before seeding. It is fairly generally known that ordinary seed treatment practices are of no value against the true loose smut disease. Since it is very difficult, however, to distinguish between loose smut and false loose smut (which can be readily controlled by seed treatment) farmers who have noted smut of any kind in their barley fields are well advised to treat seed for next year's crop.

Busy year for Sask. Vets.

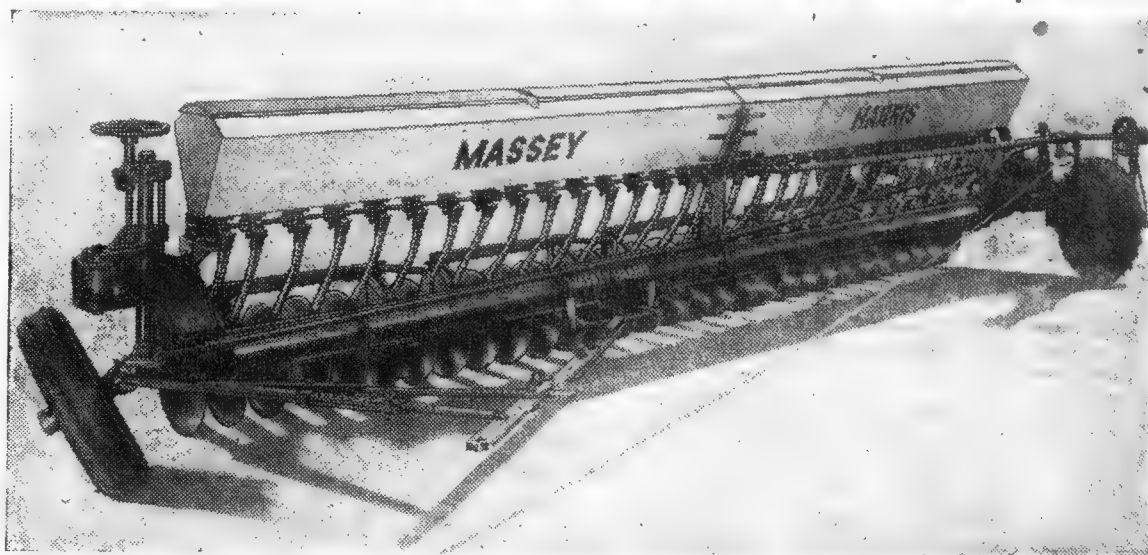
REGINA. — A total of 3,500 veterinary calls were made by the veterinarians in charge of 11 veterinary service districts operating in Saskatchewan under veterinary service district boards in 1948, according to a report released today by Agriculture Minister I. C. Nolle.

In addition, the veterinarians tested 3,445 animals for T.B. and 2,727 animals for Bang's disease.

Eight of the districts covered in the report were in operation for the full year, two commenced operations after January 1, and one district ceased to operate in December following the resignation of the veterinarian in charge.

BRAND NEW!

SAVE TIME... LABOUR.. MONEY



with the NEW MASSEY-HARRIS No. 26 Wide One-way Disc Harrow

HERE IS THE LAST WORD IN DISC DESIGN!

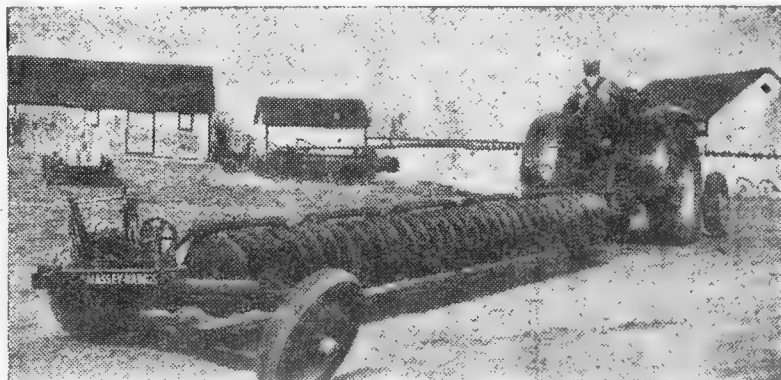
It's wide! Its 15½-foot working width helps you cover more land per day, at less cost per acre. This means you can do your spring seeding and tillage operations or summer-fallow cultivation a lot faster!

It's flexible! The gangs on the Massey-Harris Wide One-Way Disc Harrow are mounted so that there are five gangs of six discs each. Because of this flexibility the discs penetrate the ground to a uniform depth in both the hollows and the high spots across your land.

It discs one-way! Because it discs one-way the Massey-Harris No. 26 leaves the land level with no ridges or dead furrows to set up hidden hazards for your combine at harvest time.

The Massey-Harris No. 26 is available with 30-run grain box attachment to help speed up your spring seeding. An automatic throw-out stops the seeding mechanism when the discs are lifted on the headlands.

The Massey-Harris No. 26 is equipped with Roto-Lift, the patented Massey-Harris disc lifting feature made famous in the No. 509 One-Way Disc. By this method the discs are raised and lowered gently and positively *under power*—while the frame remains in its working position. The power lift, when tripped, raises the discs to the top of the soil in approximately two feet of travel—and completes the cycle to full clearance in less than 40 inches of travel. See your dealer about the new Massey-Harris No. 26 Wide One-Way Disc Harrow.



In the space of just a few minutes you can convert your Massey-Harris No. 26 Wide One-Way Disc Harrow to a convenient eight-foot-wide machine for transporting behind your tractor.

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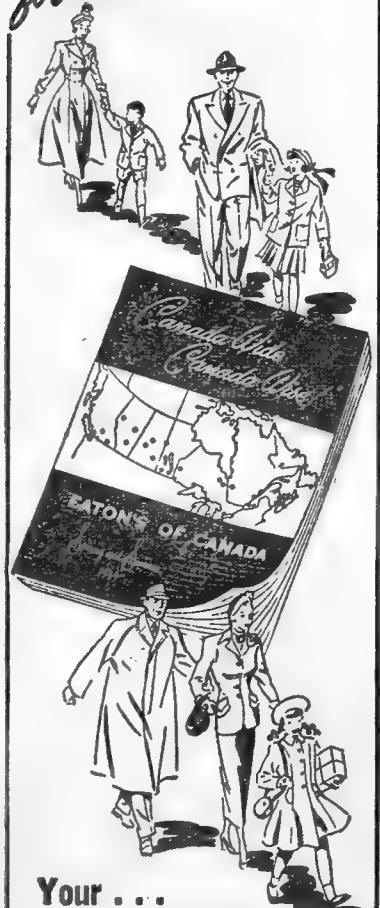
Low-cost WARBICIDE treatment is effective, painless, non-poisonous. Specially prepared according to official Government recommendations. 1-lb. cans for hand treatment; 4-lb. bags for power sprayers.

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HERE'S to YOUR HEALTH!

New weapon

(Time Magazine)

THE exact cause of tooth decay has always puzzled dentists. Researchers have recently looked with the deepest suspicion at *Lactobacillus acidophilus*, a germ found in saliva. Thus far, the most practical weapon against the germ, which apparently attacks the teeth from the outside, has been flourine, introduced into the enamel as the teeth are being formed.

Recently a nonprofit group called the Eastern Graduate Research Foundation announced a new campaign against *Lactobacillus* and a three-year program to test it. The new weapon is a tooth powder containing dibasic ammonium phosphate and urea (a synthetic nitrogen compound). The powder is supposed to break down tooth film, slow down growth of bacteria and neutralize the acid created by *Lactobacillus*. In preliminary experiments, the foundation claims, it has reduced decay as much as 35%.

As guinea pigs, the foundation, co-operating with the Poloris Co., which manufactures one type of ammoniated powder called Amm-i-dent, has chosen the school children of Mahopac, N.J. (pop. 1,109). Some 500 Mahopac pupils from kindergarten through the tenth grade will be asked to brush their teeth twice a day with Amm-i-dent. Free X rays and periodic dental examination will provide a running check on the experiment. Its sponsors hope that the new powder will prove effective against decay, regardless of the tooth-owner's age.

Milk

EVEN at present prices milk is one of the few remaining foods that Canadians can buy economically considering the nutritional value obtained. There can be no compromise in the nutritionist's attitude that milk consumption should remain at a high rate.

Milk is still economical. True, the price of fluid milk has increased about 50% on most Canadian markets since before the war, but the price of food in general has increased around 90% which leaves milk one of the cheapest, as well as one of the best. Many foods have increased well over 100% in cost even without providing the nutritional value of milk, and yet show no signs of being used in decreasing amounts (for example some beverages).

In fact, a recent study near Toronto (*Canadian Public Health Journal*, October 1948) indicated that money was frequently kept from buying milk on the ground that milk prices were too high, and then spent on increased amounts of candy, cookies, cakes and such sweets which do not approach milk in total nutritional value. These other items have escaped the publicity that has been focussed on milk, whereas they deserve even more scrutiny when the maximum nutritional value must be obtained for every dollar spent on food.

Milk provides body building and repairing protein of the very best type. Milk is our chief source of the bone and teeth-building minerals. Milk provides about one half of all the riboflavin (a B vitamin) that is

available in our Canadian diet. Milk provides useful amounts of other vitamins and milk is a source of calories or food energy. All these statements apply to skimmed milk as well as to whole milk, although with varying degrees of emphasis on one or the other. Generally speaking, the extra fat of special milks carries no real nutritional advantage and may be undesirable for children.

How much milk is a basic need? There has always been some confusion on this point. Many nutritionists quote American statements which refer to a pint and a quart that are 20% smaller than ours. Other nutritionists have thought only in terms of younger children and have forgotten the adolescent who can easily, and usefully, take a quart of milk a day. Still others have recommended gen-

erous amounts on the theory that it would do no harm. There is a general agreement, however, on three points: (1) No child under 13 should be expected to use a quart of milk daily; therefore the slogan about a quart of milk daily for every child should not be used in Canada. (2) No child should receive less than one pint of milk a day. (3) No adult should receive less than one-half pint of milk a day. Clearly these figures set certain limits which permit calculating the family needs, having in mind that a little bit more than stated is far better than a little bit less. Thus a typical family of five should take at least two quarts of milk for every day in the week. And nothing they buy will give more health value for the money!

Energy to Burn

SCHOOL children play hard and use up a great deal of energy. They need a good, hearty meal at lunch time to keep them healthy. The noon-day meal should be more than a snack. It should be planned as an important part of the day's eating schedule.

Toxoid still rated top diphtheria preventive

RECENT outbreaks of diphtheria in southern Alberta which necessitated the closing of schools and the banning of public meetings in some districts serve as a reminder that toxoid is still the perfect diphtheria preventive, it is stated by the Health League of Canada. There would have been no outbreaks had those affected been properly immunized through toxoid injections.

It seems a pity, the Health League says, that in this supposedly enlightened day and age that diphtheria should still be taking toll in death and sickness when medical science has provided harmless toxoid, a most efficient immunizing agent. It is true that the Alberta outbreaks were isolated instances, but it is hoped, the Health League says, that they will provide food for thought among the thousands of Canadian parents

who have neglected to have their children immunized against preventable diseases such as smallpox, diphtheria and whooping-cough.

The picture does have some bright sides, however, and just recently the Toronto Medical Officer of Health, Dr. Gordon Park Jackson, revealed that Toronto was diphtheria-free in 1948 — repeating the record-breaking year of 1940 when that city for the first time in its history reported no cases of the disease. Toronto is the only city of its size in the world ever to go through one calendar year without a case of diphtheria.

"It is to be hoped that the attainment of such a record will not induce the citizens of Toronto to become apathetic and indifferent where diphtheria is concerned," the Health League says. "They should continue to remember that toxoid prevents diphtheria."





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What *is* the job-flexibility of a tractor for your farm? It's the total working range—performance *there for you to use* in all the many different power requirements, with different implements to handle—each job to be done with the very minimum of cost, the greatest possible saving of labor.

A large order that only the New Ferguson Tractor can fill. Job-flexibility of the new Ferguson starts with the lighter jobs like planting, cultivating, haying and hauling, and belt work like shelling corn, grinding feed. Handy and cheap to run as a *small* tractor *which it is*. But just as capable—and a lot more economical—right at the top *and above* its

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Measure the crop-to-crop and job-to-job performance of the New Ferguson against any other tractor. You'll choose the New Ferguson with Ferguson System advantages of job-flexibility and low operating costs. See your friendly Ferguson dealer for a demonstration.

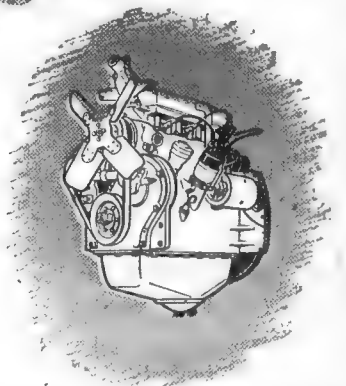
FOR A BETTER LIVING AND A BETTER WORLD THROUGH...
Lower production costs and increased profits for the farmer... Lower food costs for the consumer... Less world unrest from hunger and want... Greater security for world peace.

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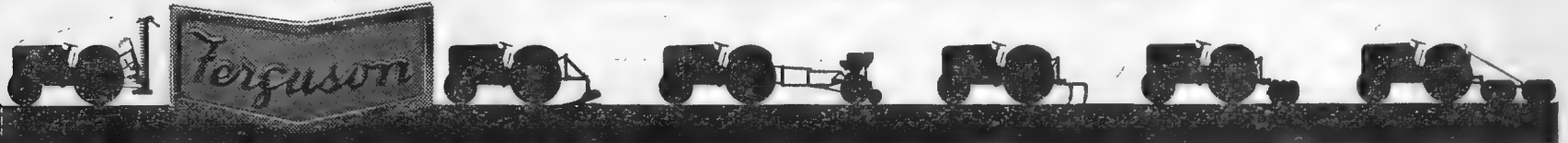
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Powerful Valve-in-Head CONTINENTAL ENGINE FOR JOB-FLEXIBILITY

Four speeds forward, each with a wide range of working power. High torque design provides steady flow of power even when running slow in high or third. “Wet” sleeves fully water-jacketed, improved cooling fan, full pressure lubrication, built-in oil filter, fully enclosed governor—precision manufacture throughout, for long life and low-cost operation in hard use.



Farm Service Facts

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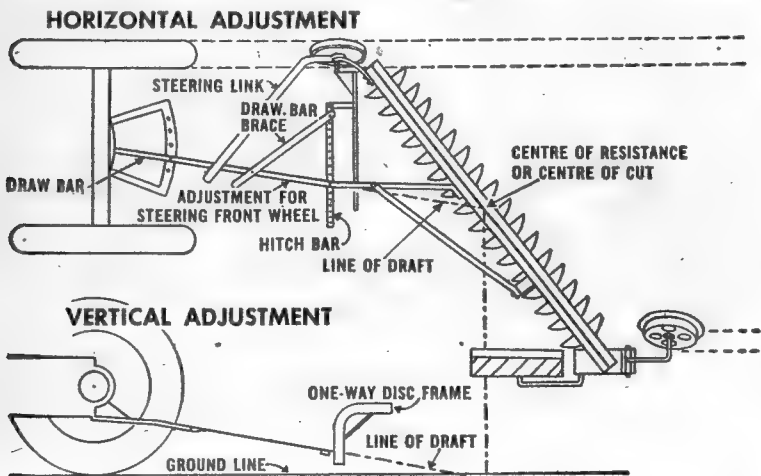
IMPERIAL OIL LIMITED

EXCESSIVE TIRE SLIPPAGE COSTLY IN FUEL

Needless fuel consumption and tire wear result if there is excessive slippage of tractor tires. Correct hitch of tillage implements will ensure increased weight on the rear tractor wheels with increased implement draft, thus improving the traction in heavy going.

The one-way drawbar should reasonably follow this line.

The vertical hitch on the tractor is as high as is practical without loading the sliding drawbar too heavily or affecting the steering of the tractor. The vertical hitch on the implement



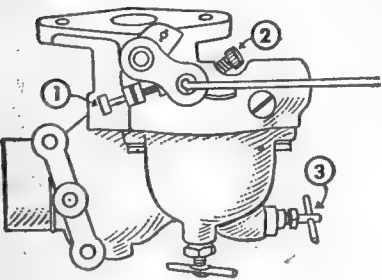
For example, the one-way disc, illustrated here, is drawn from the centre of cut (between the two centre discs or from the centre disc). The horizontal hitch adjustment is so placed that the implement will be drawn from the centre of cut by the pivot of the swinging drawbar of the tractor, with no side thrust. The line of draft is a straight line from the centre of cut to the tractor drawbar.

is as low as possible so that the drawbar of the implement will be in line with the line of draft, which runs from the bottom of the centre disc to the drawbar of the tractor.

Additional traction to reduce slippage may be obtained for heavy draft either by filling the rear tractor wheel tires 90 per cent full with water or calcium chloride solution, or by attaching wheel weights.

ADJUST CARBURETOR TO AVOID FUEL WASTE

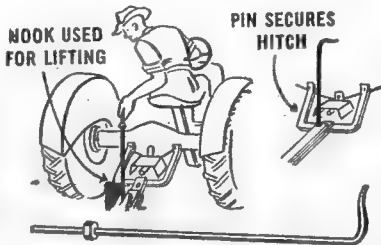
Your carburetor will supply your tractor engine with fuel in economical amounts only if properly adjusted.



Full power without fuel loss is the objective. After the engine is thoroughly warmed up, adjust the idle stop screw (1) to give the engine idling speed. Turn idling adjustment screw (2) either in or out until the engine idles smoothly. Next, with the tractor operating at normal load, turn down the load adjusting screw (3) until the engine begins to backfire and miss. Then turn back the screw slowly until the engine picks up speed until it won't gain further, and is running smoothly.

SOME RULES FOR SAFE TRACTOR OPERATION

1. Be sure gear shift lever is in neutral before starting the engine.
2. Always engage clutch gently.
3. Brake both wheels simultaneously when making an emergency stop.
4. Never ride on drawbar of tractor.
5. Watch sharply for holes or ditches into which a wheel may drop and cause overturn.
6. Reduce speed before making a turn or applying brakes.
7. Never refuel while motor is running or extremely hot.



8. Never stand between tractor and drawn implement when hitching; use an iron hook to handle drawbar as illustrated. Hook may be made easily from a piece of 3/4 inch iron rod 2 to 3 feet long, depending on height of tractor seat, and used both as hook and drawbar pin.

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LOW PRICE



25 lbs. Marvelube No. 11 Grease with Alemite Hand Lever Gun

For its price, this little hand lever gun is a honey. Light to carry, yet it exerts enough pressure to force the grease through all moving parts. Can be used for all types of light-bodied, heavy-bodied or fibrous greases.

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FR-3

The National Debt and the Bible

To the Editor:

FIRST let me congratulate you on your March editorials; it is a pleasure to read them, and, second, to convey my appreciation to Jas. L. Lloyd, Greenwood, B.C., for his courteous comment of R. A. Jackson's subject, "our national debt."

But would the cyclical formula really help. My belief is that all it would accomplish would be to equate poor years with the good, still leaving principal untouched and still expanding. Have we not invented the myth that the burden of debt accumulated by our civilization could be treated as capital upon which we could live for ever and ever.

After the first world war, Britain knew this would prove impossible, and suggested the cancellation of all war debts, but world finance said nothing doing. Yet the only infallible textbook, the Bible, distinctly states that all debts must be cancelled every seventh year. I am well aware a shudder as big as an earthquake would be the answer today at such a suggestion.

Outlook, Sask.

Edwin Miller.

Treating fence posts prolongs use

EXPERIMENTS have proved conclusively that it is a sound business practice to treat fence posts. Both the bluestone and coal tar treatment more than double the life of a 30 to 40 cent post for an additional cost of only 5 to 10 cents.

Green posts such as poplar and willow are best treated with bluestone. This treatment consists of standing green posts in 2 1/2 to 3 feet of a saturated bluestone solution. They are left for a period of 6 to 12 hours, or until the bluestone solution has reached the top of the post. A warm, sunny day is best for a rapid, thorough absorption of the solution.

The solution should not be kept in barrels or metal containers, as it will rapidly corrode metal. However, as soon as the solution has dried in the post, it has no effect on the staples or wires which come in contact with it.

This treatment is intended primarily for green posts. It can be used on dry cedar posts. Such posts must be left to soak in the solution for a period of 2 weeks or more.

Fences which were constructed 21 years ago of bluestoned poplar posts are still being used with over 90 per cent of the posts still sound. Untreated posts used in adjacent fences usually rot off completely in four years.

The coal tar treatment is primarily intended for dry cedar or tamarac posts. The tar is mixed with an equal amount of water and heated until it foams violently. The posts are then dipped into this mixture, one at a time, to a depth of six inches above the intended ground level.

A \$35.00 investment in coal tar will treat 1,000 to 1,200 split cedar posts. Where this treatment has been used, it has more than doubled the life of the untreated posts. A big majority of cedar posts thus treated are still sound after 20 years in the ground.

A bulletin containing detailed information on the treatment of posts by these methods can be obtained, free of cost, from the Dominion Experimental Station, Swift Current, Sask.

One pound of rotenone dust will treat about 12 head of cattle for grubs.



"Fire the editor!" this reader suggests

To the Editor:

Last November I sent you a letter asking you to print it in your Readers' page. The letter was an answer to your editorial in your November issue — "The Mirage of the U.S. Wheat Price."

I was as polite as the circumstances permitted, but till now my answer didn't appear in your paper.

You do not like the truth, nobody likes the truth, so I have to tell you straightforward the naked facts.

Your "Mirage" is such complete nonsense, that I have to wonder how a man of your education can give his name to it. If you believe it yourself and if it is your Brainchild, then I am sorry to say that you are not fit for your job as editor. It is hard for me to believe that that is so. But if you have published the "Mirage" against your better knowledge, then I can only guess that you are the hireling of someone else interested in influencing the farmers in the wrong direction. We farmers expect something better from an editor of the Farm and Ranch Review.

I feel not obliged to explain anything I have said already, but I will repeat that.

Government monopoly is contrary to Democracy and is nothing short of communistic tactics. The loss of hundreds of millions of dollars is real and cannot be disputed. Mr. Gardiner himself confessed it already. The successive adjustment payments of the Board is a loss too. The purchasing power for my 1945 and 1946 payments is 40 to 45% of the dollar.

With what right does a democratic government compel the western grain farmers to sell the wheat for a fixed low price and keep part of the money back for years.

If the late Mr. Peterson could see the disgrace of his paper today, I am sure he would turn over in his grave.

William Fabriz

Dapp, Alta.

Why not use Canadian dollars?

To the Editor:

ALLOW me to congratulate you on your editorial in the March issue entitled "Exporting Canadian Top Soil Builds American Colleges and Hospitals." How true it is that due to our economic system we are being forced to rely on the American dollar to develop our natural resources, in other words produce our own wealth. That there must be something radically wrong your editorial plainly illustrates. Will not Canadian dollars serve the same purpose, or is there not enough of them to serve?

While we possess one of the richest iron ore deposits in the world and there is an ever increasing demand for that ore, must we let it lie dormant underground or hand it over to American capital to develop. Don't we need the wealth, represented by this ore, distributed amongst Canadians or the industries required to process this iron ore into iron and steel machinery? Of course we do, but where is the money coming from to do this developing and processing? Mr. Editor, there is one and one only justification for issuing any money of

whatever kind whether paper, silver or gold and that is consumable production. It is only common sense that as production increases to meet the demands of consumption, so should money, or means of exchange increase to make possible the distribution of this production.

Natural resources are the property of the people; the issuing of money to the extent that these resources are developed, processed and consumed is the responsibility of the government who represent those people. Mr. Editor this is the natural sequence of events in economy, any other system of economy is unnatural and wrong on the face of it.

To give the power to any man or body of men to say how much money shall be issued for any purpose is to give them the power to say you shall have this or be deprived of that in spite of you being a shareholder in our common property. Well, Mr. Editor, you perhaps, and others will say why this is social credit as it undoubtedly is, but if these tremendous iron ore deposits are not the credit of society for whom did God intend them?

Condor, Alta.

H. Meeres.

Turkey raisers problems

To the Editor:

In reply to your article on Manitoba turkey production.

Two years ago we decided to go into Turkeys in a big way and went to the expense of getting wire for a good sized pasture for them. Then we sent away and got a special breed of Broad-Breasted Bronze Turkeys, and really looked after them all summer.

These Turkeys were supposed to be extra large for export sale, and true to form they weighed about 18 to 20 pounds for hens and 24 to 28 pounds for Gobblers. When Fall and time for market came, we killed them and brought them to the local Co-op. buyer, and he told us they were the finest birds he had seen, but seeing as they were so big he would have to dock us for overweight, 5c per pound, which left us 18c per pound for dressed turkeys. This would not even pay for the raising of the turkeys, let alone the work a person has to do to look after the blamed things.

We took them all back home refusing to sell at his price, and we advertised them in the paper and sold them direct to consumer for 25c per pound, but here we had difficulty also because we had no license to sell to the public.

We decided that if it was going to be as much trouble as all that, we would just raise what we wanted and let the rest of the world do the same. I am quite aware that a city buyer has to pay a big price for turkeys, but the farmer does not get it, the middle man makes more for handling them than the farmer does for raising them.

If those big-shots that like to eat turkey so much, will just take their feet off their desks for long enough to look into affairs of this kind, and see that the producer gets a fair price for his produce, instead of the middle-man getting the biggest half, I am quite sure the farmers of Manitoba would produce their share.

Duncan Welch.

Virden, Man.

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HERE'S the Digger that meets every requirement for fencing operations. It's fast, versatile, easy-to-handle, and a fuel-saver! The Digfast slips onto your tractor, truck or jeep in a jiffy. Its telescopic drive shaft and universal joint action allows a 50-degree traverse in 4' x 8' area. The Digfast will pay for itself in no time!

Invest in the Digfast for your own use and also earn big money doing custom fencing work on neighboring farms and ranches.

NOTE
when ordering please give name of tractor and state size of spline — 1½" or 1¾".

Digs holes in gravel ground much better and faster than all other types of post-hole diggers.

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No. 36 for 36-inch
deep hole

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Order Bits for 7-inch or 8-inch hole.

Extra Hard-faced hole bits available, 7" or 8" holes at

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I am enclosing \$_____ for No. _____ DIGFAST

Equip with _____ inch bit. Name of tractor is _____

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A FEW days lost due to the breakdown of your tractor, or truck means just that much shorter a growing season for the farmer, and that could mean hundreds or thousands of dollars out of your pocket. NOW costly repairs due to dirt and sludge can be eliminated. Switch to RECLAIMO, the oil-filter with the super-cleansing action. Reclamo... and only Genuine Reclamo features the patented heater element which evaporates ALL fuel and water dilution.

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Express prepaid to your station.
Cash with order or C.O.D.

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History made, records smashed at Calgary Spring bull sale

Hereford bull brings \$7,000, Aberdeen-Angus brings record \$3,650 and Shorthorn \$2,000 also tops previous high. Spirited bidding for top quality bulls of all breeds as all-time record of 1,002 bulls sold.

CALGARY'S 49th Spring bull sale broke 10 all-time records this year. A total of 1,002 pure-bred bulls sold for \$640,270, at an average price of \$638.99. Total sales were \$654,273.73, including \$14,022.73 for baby beef.

Veteran cattlemen were amazed at the manner in which eager buyers kept the cash register jingling and Americans who had come to the sale expecting to get some bargains found themselves continually outbid by Canadian breeders.

When William Weber of Woodhouse paid \$7,000 for a Hereford bull which had stood ninth in a class of ten, after the grand champion and reserve grand champion sold for \$3,500 each, he created a sensation.

The \$7,000 beauty was Proud Mixer KHF 103d, consigned by Albert Alm & Sons of Claresholm and admirably fitted by Ed. Noad of Olds. The runner-up to the successful bidder was Charles Jones of Balzac and the Pavilion resounded with applause as Mr. Weber walked off with the bull after his \$7,000 bid was held good by the auctioneers.

The high record for the Calgary bull sale is \$8,000, the sum an American buyer paid for an Airdrie Hereford some years ago.

The grand champion and the reserve grand champion both consigned by W. A. Crawford-Frost of Nanton each brought \$5,000.

All the high-priced bulls were purchased by either Alberta or Saskatchewan buyers.

Highlight of the Aberdeen-Angus auction was the rousing \$3,650 paid for the champion bull by W. J. Hunter, Calgary. Named Woodlawn Eileenmere 8th, it was owned by Roy Ballhorn, Wetaskiwin. The price was almost two-and-a-half times the previous high paid for the breed. The old record was set in 1946 when H. A. Spiller, Daysland, bought G. Rosegay's Blackcap for \$1,525 from R. R. Buchanan, Pincher Creek.

Tops Champion

The figure, incidentally, topped that paid for the Hereford champion of \$3,500.

Here are the other new records: Total sales, \$640,270. Old record, \$413,900, set in 1948.

Average price, \$638.99. Old record, \$478.15, set in 1947. The rise was just under 35 per cent.

Number of bulls sold, 1,002. Previous mark, 953, set in 1946.

High price for Shorthorn, \$2,000 for Melbar Norseman Remembrance, paid by J. Alex Rankin, Twin Butte, Alta., to William Melnyk, Chipman. The old mark was set in 1945 when two bulls sold for \$1,800 each. Gold Bar Max, owned by the University of Alberta, sold to R. R. Bowe, Innisfail, and Lovely Maids Prince, owned by Adam Berreth, Beiseker, sold to A7 Ranch, Nanton.

High Averages

High average for Herefords, \$693.66. Old mark, \$530.97, set in 1947.

High average for Shorthorns, \$529. Old figure \$372.77, set in 1948.

High average for Aberdeen-Angus, \$510.17. Previous record, \$395.41, set in 1948.

High average for five bulls, \$2,920, set by W. A. Crawford-Frost, Nanton, with Herefords. Previous mark, \$2,140, set by the same man in 1948, also with Herefords.

High average for 10 bulls, \$2,325, set by W. A. Crawford-Frost, Nanton.

In 1948, 879 bulls sold for \$413,900 at an average of \$470.88.

Biggest purchasers at the sale were the Alberta Department of Agriculture and the Indian Affairs Branch. Nineteen American buyers took home 67 bulls between them. A year ago 25 bought 159 bulls and 59 were purchased in 1947.

Arthur A. Sunde, Bismarck, N.D., was the top U.S. buyer with nine bulls. J. D. Harms, Loomis, Washington, picked up seven.

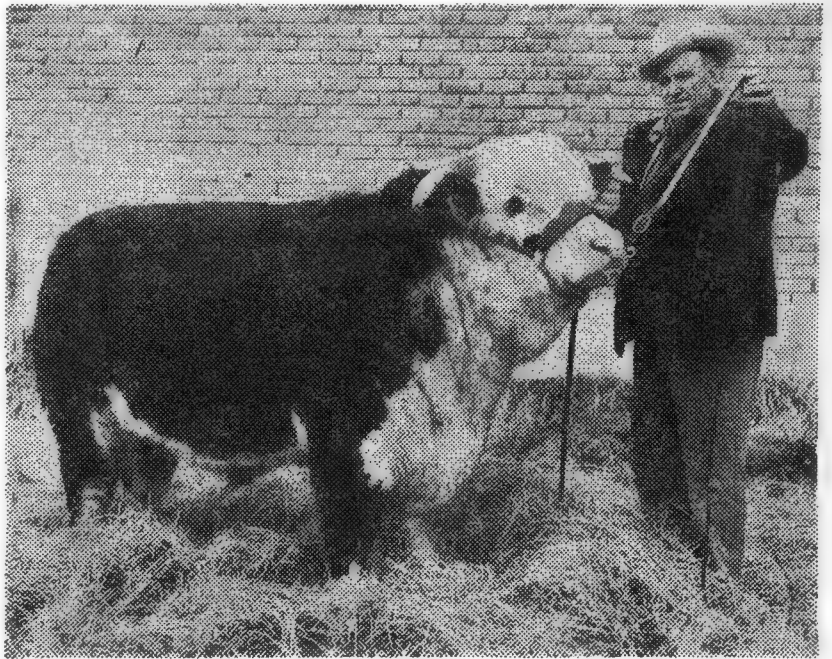
Low price for the entire string of bulls came at the very end of the show, when the audience had dwindled to about 500. Sam Stooshnoff, Calgary, got an Aberdeen-Angus under 18 months for \$150.

Shorthorn Sales

A total of 172 Shorthorns brought \$91,140 for an average of \$529.

A total of 145 Aberdeen-Angus were put on the auction block bringing \$73,975, and averaging \$510.17.

The \$7,000 Bull



Here is Proud Mixer KHF 103d, for which William Weber of Woodhouse paid Albert Alm & Sons \$7,000 at the Calgary bull sale. Ed. Noad of Olds, Alta., who fed the animal is proudly showing him.

William Melnyk, Chipman, got the two top prices in the Shorthorn class. Besides the \$2,000 received for an all-time Shorthorn record for Melbar Norseman Remembrance, he got \$1,700 for Melbar Norseman Diplomat, Shorthorn champion, and by the same sire.

Third high price in the Shorthorns was the \$1,325 paid by Kastelic Bros., Sangudo, for Elburn Norse Command, owned by P. W. Stefura, Chipman, and also by the same sire as the Melnyk bulls.

Second best price in the Aberdeen-Angus class behind Roy Ballhorn's champion was that for \$2,150 paid for the reserve champion Dalrene Ere Bardolier 3rd, owned by Flint and Flint, New Norway, and sold to A. Murphy, Altario.

Flint and Flint also got the next two best prices of \$1,500 and \$1,275. They sold two others for \$800 and \$600 to get a total of \$6,325, or an average of \$1,265. All the Flint and Flint entries were by the same sire, Dalrene Eric Bard.

Lower Prices Paid for quality stock

OUTSIDE of the 75 cents per pound chalked up for the grand champion animal of the show, with a resident of Cardston as the purchaser, disappointing prices were paid for top quality baby beef and fat stock at the annual auction.

"Calgary businessmen, who used to support the baby beef sales in a splendid manner, have nothing to be proud of in the prices paid for the fat stocks and baby beef this year," Walter McCollister of Dalroy, president of the Alberta Cattle Breeders' Association, stated after the sale.

The grand champion baby beef, a Shorthorn heifer owned by Miss Leta Boake of Acme, sold for 46 cents per pound. The reserve champion, a Hereford shown by Miss June Hehr of Midnapore, brought 36 cents per pound, while the reserve champion fat stock shown by W. N. Gibb of Killam, brought 31 cents per pound.

The balance of the prices made for the 70 head of top quality animals brought little more than current stockyard prices.

The grand champion steer exhibited by B. V. Powlesland of Cochrane, was bought by Wayne Malmberg, a Cardston butcher, for 75 cents per pound.

Weighing 1,160 pounds, it brought its proud owner \$843.75.

Burns & Company of Calgary paid 28½ cents per pound for the prize-winner in the Aberdeen-Angus class exhibited by Michael Boyce of Calgary.

The complete prize list in the fat stock and baby beef events follows:

Class 14, steers or heifers over 1,200 lbs.—1, Ed. Noad, Olds; 2, H. Rowell, Olds; 3, W. L. McGillivray, Coaldale; 4, Jim Brown, c/o Geo. Calder, Innisfail; 5, John M. Barclay, Knee Hill Valley; 6, J. L. Elliott, Clive.

Class 15, champion fat animal in classes 12, 13, 14. Champion, B. V. Powlesland; res. champion, M. W. Gibb. Grand champion fat animal in show — Grand champion, B. V. Powlesland; res. grand champion, Leta Boake.

Quaker Oats, grand champion — B. V. Powlesland, \$100. Res. grand champion, Leta Boake, \$50. \$100 offered by the Alberta Hereford Breeders' Association if grand champion fat animal is sired by a Canadian recorded Hereford sire. Also \$50, if reserve grand champion is sired by registered Hereford.

Champion — B. V. Powlesland. \$150 offered by the Canadian Shorthorn Association if grand champion is sired by registered Shorthorn bull. Also \$50, if reserve grand champion is sired by registered Shorthorn.

(Continued on page 34)

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Hereford honors to Crawford-Frost

W. A. CRAWFORD-FROST of Nan-ton, won both the grand and reserve grand championships in the Hereford division when judging of bulls was concluded at the spring stock show and sale.

The ribbons both went to sons of Silver Standard, herd sire on the Crawford-Frost farm.

In winning the grand and reserve championship, Mr. Frost defeated top quality entries from the Little Red Deer farm operated by W. J. Edgar of Innisfail, who had previously taken two firsts in class events.

The Aberdeen-Angus grand championship went to Roy Ballhorn of Wetaskiwin with Flint and Flint of New Norway getting the reserve ribbon.

WHEN painting a house in regions of intense summer heat, use a light color of paint. This will tend to make the house cooler, as light colors absorb less heat.

History made, records smashed at Calgary Spring bull sale

(Continued from page 32)

tered Shorthorn bull. Reserve grand — Leta Boake.

Class 12, steer or heifer under 1,000 lbs. — Prizes, 1st, \$40; 2nd, \$35; 3rd, \$30; 4th, \$25; 5th, \$20; 6th, \$15; 7th, \$10; 8th, \$10; 9th, \$5; 10th, \$5. Olds; 2, Douglas Grenville, Morrin; 3, Jas. W. Black, Lougheed; 4, Chas. Pratt, Didsbury; 5, E. P. Berg, Millicent; 6, John K. Montgomery, Crossfield.

Quaker Oats Company, best animal in open competition under 1,000 lbs. — Ed. Noad, Olds. Best animal in open competition, 1,000 lbs. to 1,200 lbs. — B. V. Powlesland, Cochrane. Best animal in open competition over 1,200 lbs. — Ed. Noad, Olds.

Class 13, steer or heifer, 1,000 lbs. to 1,200 lbs. — 1, B. V. Powlesland, Cochrane. 2, M. W. Gibb, Killam. 3, W. Cameron, Midnapore. 4, L. E. Westerlund, Esther. 5, Thos. Henderson, La-combe. 6, M. W. Gibb, Killam. 7, J. W. Barty, Sedgewick. 8, H. Rowell, Olds. 9, Matthews Music House, Calgary. 10, Arrowwood Farming Company.

Hereford baby beef — 1, June Hehr, Midnapore. 2, Gordon Church, Balzac. 3, Robert Church, Balzac. 4, Donald Sandeman, Okotoks. 5, Daunavan Buyer, Carbon. 6, Lloyd Westerlund, Esther. 7, Isabel Sandeman, Okotoks. 8, Geo. C. Edgar, Innisfail. 9, G. A. Ward, Arrowwood. 10, Michael Rodgers, Kew. 11, Norman Boggs, Bottrel. 12, Morley Buyer,

Carbon. 13, Lois Poulson, Dalemead.

Quaker Oats — \$25 champion Hereford baby beef — June Hehr.

\$100 cash donated by Taussig Brothers, Parshall, Colorado, U.S.A., for champion Hereford baby beef — June Hehr.

Shorthorn baby beef — 1, Leta Boake, Acme. 2, Donald McDonald, Grainger. 3, N. Duncan Manuel, Innisfail. 4, David Kenney, Redland. 5, Duncan MacDonald, Grainger. 6, Robt. Dahm, Rockyford. 7, Thos. J. Manuel, Innisfail. 8, Billy Hebbson, Okotoks. 9, Maxine Hamilton, R.R. 3, Red Deer.

Quaker Oats, \$25 champion Shorthorn baby beef — Leta Boake, Acme.

Aberdeen-Angus baby beef — 1, Michael Boyce, Olds. 2, Jane Ralston, Balzac. 3, Louise Simpson, Calgary. 4, Blanche Ralston, Balzac. 5, Effie Simpson, Calgary. 6, Frank Cullen, R.R. 2, Calgary. 7, Robt. McBride, Benalto. 8, Marjorie Penny, Olds. 9, Lou McBride, Benalto.

Quaker Oats, \$25 champion Aberdeen-Angus baby beef — Michael Boyce, Olds.

Specials for novice exhibitors — The Alberta Aberdeen-Angus Association offers special prizes. Open only to junior exhibitors who have never won a first, second or third prize in any previous junior calf competitions, showing calves sired by registered Aberdeen-Angus bull. 1st, \$8; 2nd, \$6; 3rd, \$5; 4th, \$4; 5th, \$3; and \$2 for each additional entry. 1, Jane Ralston. 2, Frank Cullen. 3, Robt. McBride. 4, Marjorie Penny.

Roy Ballhorn heads Alberta Cattle Breeders

MEMBERS of the Alberta Cattle Breeders' Association elected Roy Ballhorn of Wetaskiwin, an Aberdeen-Angus breeder, as president at the annual dinner and meeting held at the Palliser hotel.

L. W. Bond of Irricana, secretary of the Alberta Hereford Association was named first vice-president, and E. J. C. Boake, Acme, a Shorthorn breeder, was elected second vice-president.

Other directors elected representing the three beef breeds are as follows: Herefords, Charles Jones, Balzac; John Wilson, Sr., Innisfail; Charles Bull, Midnapore; and J. A. Paul, Okotoks.

Shorthorn breeders, A. J. Hadden, Okotoks; W. D. MacDonald, Grainger; and T. G. Hamilton, Innisfail.

Aberdeen-Angus breeders, R. V. McCullough, Red Deer.

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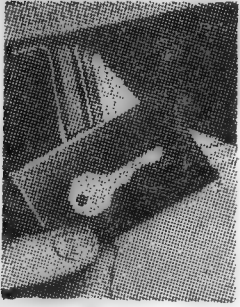
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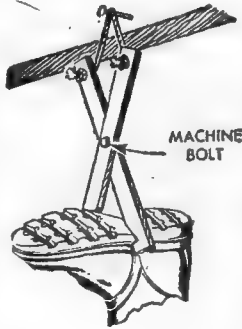
Handy Devices

By Courtesy of the "Popular Mechanics Magazine"



PATTERN OF CAR-DOOR KEY CARRIED IN WALLET

A PATTERN of the car-door key silhouetted on a piece of photo or blue print paper is a handy item to carry in your wallet. Then, if the door is locked with the key still in the ignition switch, a new key can be duplicated from the pattern. This will save the cost of removing the door lock or breaking a window.



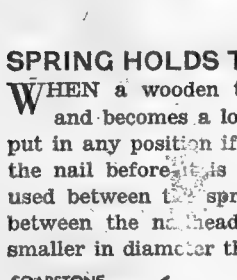
HIP BOOTS HUNG BY TONGS ARE KEPT FROM CRACKING

TO store rubber hip boots without danger of their becoming cracked at the knees, suspend them from the ceiling with these wooden tongs. The tongs are notched at one end to grip the sole of the boot, and joined at the center with a machine bolt. A length of cord is fastened between the ends opposite the notches so that when it is looped over a nail the weight of the boot causes the tongs to grip.



ADHESIVE TAPE HOLDS SMALL PARTS

WHEN repairing clocks or electrical appliances where a number of small parts have to be removed, keep the parts in order by laying them on the adhesive side of a strip of tape. The adhesive will prevent the parts from rolling or being brushed aside accidentally and lost. Small pieces of tape across the ends of the strip will hold it flat.



SPRING HOLDS TURN BUTTON SNUGLY

WHEN a wooden turn button on a door wears and becomes a loose fit on the nail, it will stay put in any position if a short spring is slipped over the nail before it is driven in place. A washer is used between the spring and turn button, and also between the nail head and spring if the former is smaller in diameter than the spring.



LARGE PIPE CUT SQUARELY

TO cut large-diameter pipe squarely, mark it with soapstone using a piece of paper as a guide. The paper should have one perfectly straight edge and be long enough to overlap about 1/4 of its length when wrapped around the pipe. The overlap is required to align the edge of the paper.

How to Cut Back Caragana Hedges

MANY people in the prairies have planted caragana hedges in the past, which are now eight or twelve feet high, having withstood heat, drought, severe winters and attacks by rabbits. Some now regret that they did not keep these hedges trimmed into neat forms.

This is where the common caragana lends itself so well to the change in thought and the evolution of the garden. Caragana arborescens will stand radical changes in form without any serious defect or setback. If necessary or desirable, they may be cut down low and will respond with a dense growth of young wood. At the Dominion Experimental Station, Scott, Sask., says G. D. Matthews, caragana has been cut back quite low in late fall without damage from winter killing.

The chief point to remember in cutting back a heavy growth of caragana to make a hedge is to cut back eight inches lower than the height desired five years later. This will allow a good covering of young material over the old wounds and a pleasing hedge of dense growth will result, which

may then be trimmed every year. One must remember that even with summer trimming about two inches will be added yearly.

Preventing rickets

SCIENTIFIC surveys in many areas of Canada are showing that many children are suffering or have suffered from rickets due to lack of vitamin D in their diet. But the damage done these children by rickets could have been prevented. All children need Vitamin D throughout all their growing years. They need it all year 'round for healthy bones and teeth.

Vegetables for health

NUTRITION experts say that to have a well-balanced diet the average person needs at least three servings of vegetables — one of potatoes and at least two of other vegetables — each day. Leafy, green or yellow vegetables, frequently served raw, are best, the experts say, for supplying minerals such as iron, calcium and phosphorus to keep the body working smoothly.

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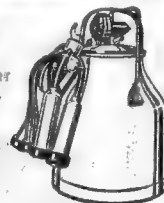
As well as the larger capacity stainless steel-equipped models ranging from 550 to 1150 lbs. of milk per-hour?

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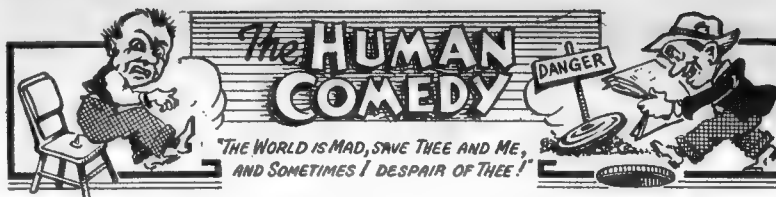
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Family Man

In Chicago, police arrested Michael Viti, who, they charged, had taken his wife and 14-month-old baby along on a holdup job.

Qualification

In London, the buyer of a want-ad pleaded: "Can anyone recommend a cure for smoking for a gentleman being improvised by the cost of tobacco? No suggestions calling for will power, please."

Also Ran

In Jacksonport, Wis., Oscar Scott got around to paying an election bet by pushing Mrs. H. B. Mogenson down Main Street in a wheelbarrow, was promptly given a ticket for operating a public conveyance without a license.

Details Follow

In Athens, Ga., two safe-crackers were arrested by police just as they were about to mail a postcard to friends in Miami saying: "Business looks good here."

Empiricist

In St. Paul, James McVey, 78, charged with drunkenness, got off with a suspended sentence by explaining that he had never been drunk before and just wanted to see what it was like.

H.C.L.

In Turin, Italy, the fine for public kissing, which was 10 lire before the war, hit a new high of 5,500 lire.

For Deposit Only

In Denmark, Wis., Bank President George de Broux, whose bank had been held up, insisted that his burglar-alarm system worked fine; the only trouble was that the guard's rifle ammunition was locked in a safe.

Scholarship

In Bristol, England, the children's officer of the city council pointed out that it costs more to send a boy to a state reformatory than to Eton.

Severance Pay

In Boston, Manager Benjamin Fastoy of the Colonial Brush Manufacturing Co. told police that an employee whom he had discharged returned later and held up the office for \$400.

Good Old Days

In London, Justice John Finemore, sentencing a purse snatcher, fondly recalled the time when "men could be flogged for this type of offense . . . The only punishment available today, unfortunately, is prison."

Overruled

In Chicago, John Snyder, ordered to pay \$3,800 damages for beating up his ex-wife, waited until the judge left the courtroom, then beat her up again.

Turncoat

In Snow Hill, N.C., Virginia police who had searched more than two years for Escaped Convict Tommy Hill finally found him working as a guard at a North Carolina state prison camp.

Better Half

In Tokyo, marriage bureaus reported business so brisk that they recently paired off a one-eyed bride with a one-legged groom.

O Promise Me

In Boise, Idaho, Jessie E. Simmons, 80, sued and won \$8,000 from Hyrum S. Lewis, 80, for not making good on his promise to marry her last spring.

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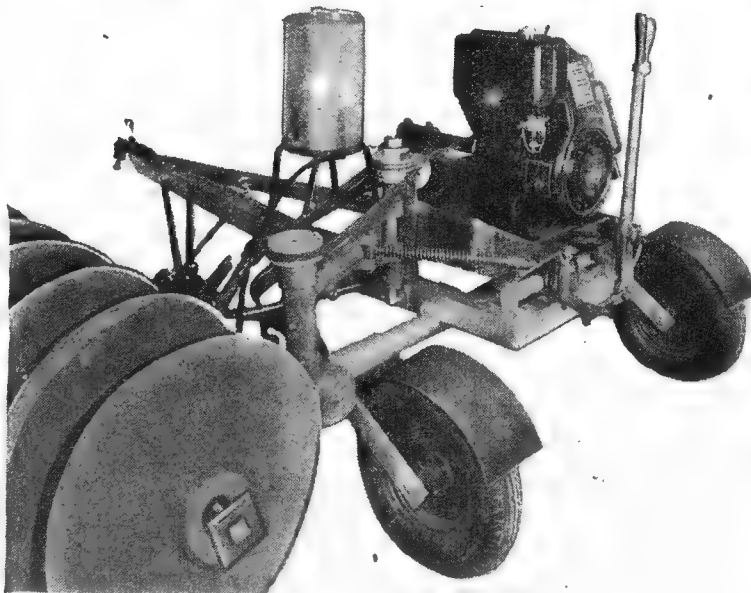
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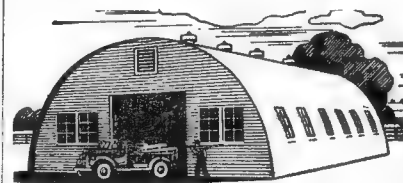
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PRIZE WINNERS



Lorne F. Ebell, of Oak River, Man., whose essay on the Canadian dairy industry took the \$200 first prize in the National Dairy Council contest. He is a student in agriculture at the University of Manitoba.



Reginald Gilstorf of Craig, Sask., University of Saskatchewan student whose paper on "The Importance of the Dairy Industry in the Canadian Economy" placed second in the National Dairy Council contest. His prize is \$100.

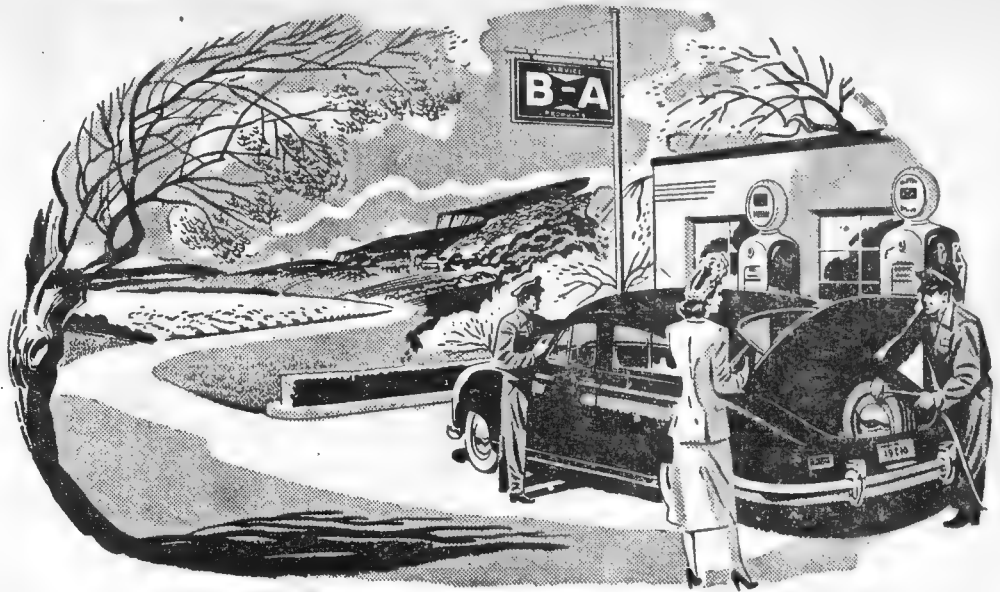
Iodized Salt May Be Compulsory

SO commonplace has simple goiter become in the United States that Congress may be asked to pass a bill at its next session requiring all salt sold for human consumption to be iodized, it is reported in C.I.L. Agricultural News.

According to Dr. Arnold Jackson, president of the American Goiter Association, the report states, 90 per cent of simple goiter could be eliminated through use of iodine. He explained that goiter, if not stopped, may develop into nodular goiter. Nine out of 10 cancerous thyroids arise from nodular goiters, he said.

In the opinion of Dr. Jackson, use of iodine tablets by school children could virtually eliminate simple goiter which may develop at the beginning of puberty. Such a plan has been in operation for the last 15 years in the state of Wisconsin where 240,000 students have been provided with one tablet per week. Because of this, incidence of goiter was reduced perceptibly.

The doctor urged the adoption of this plan in other areas in the so-called goiter belt which stretches across the northern half of U.S. and part of Canada where water and soil are deficient in iodine.



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gain 5, 10, 15 lbs.

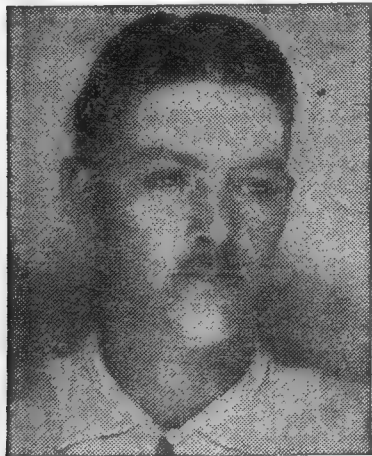
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Sincerely,
Jan. 27, 1947 **O. Jonsson**

If you suffer from itching, bleeding or protruding piles, you may have a generous supply of this good treatment absolutely free for the asking. Don't delay. Don't suffer needlessly. Fill out and mail this coupon **RIGHT NOW!**

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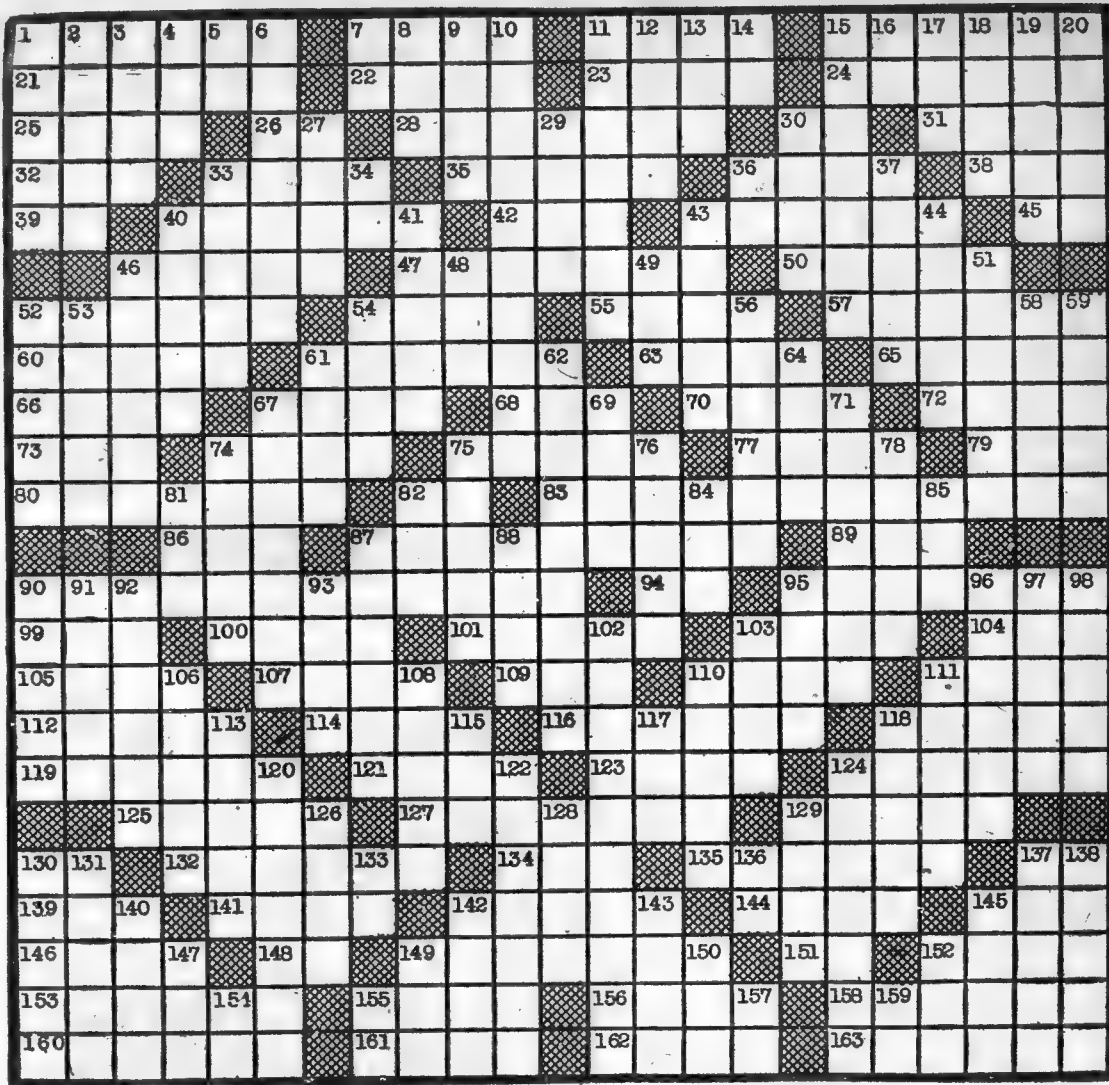
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OUR CROSSWORD PUZZLE



HORIZONTAL

- | | | |
|-----------------------------|------------------------------|-------------------------------|
| 1 Gain | 60 Isolated | 110 Buddhist column |
| 7 Assistant | 61 Knots of yarn | 111 Celebration |
| 11 Chic | 63 To beat | 112 Briton chariot |
| 15 Balances | 65 Roman robe | 114 Secret bargain |
| 21 Rest | 66 Composed of three | 116 Pieces of meat |
| 22 Fencing sword | 67 Garment | 118 Course |
| 23 Nevada city | 68 Prize vessel | 119 Passes rope through block |
| 24 Compass | 70 Love god | 121 Woos |
| 25 Alpine goat | 72 Young oyster | 123 Gaelic |
| 26 Note of scale | 73 Before | 124 Nimrod |
| 28 To interpret | 74 Gash | 125 Conveys |
| 30 Concerning | 75 Style of decoration | 127 Misconduct |
| 31 To cloy | 77 To annul | 129 To sew loosely |
| 32 Brown | 79 Suffix: adherent | 130 One |
| 33 Lateral | 80 Extreme | 132 Domains |
| 35 Groups of players | 82 Butterfly | 134 Small devil |
| 36 Moccasins | 83 Alliances | 135 Godly persons |
| 38 Weight of India | 86 Hair mat | 137 Greek letter |
| 39 Latin: also | 87 Honesty | 139 Suitable |
| 40 Reels | 89 Tone pitch | 141 Portico |
| 42 Small drink | 90 Sorceries | 142 Agitates |
| 43 Eagles' nests | 94 Canadian province (abbr.) | 144 Youths |
| 45 Musical note | 95 Reclaims | 145 Fruit kernel |
| 46 To clean | 99 Conjunction | 146 Cicatrix |
| 47 Collected together | 100 Prefix: half | 148 Symbol for tellurium |
| 50 Hall and rain | 101 Tricks | 149 Session |
| 52 Moving parts of machines | 103 Sweet biscuits | 151 Spanish: yes |
| 54 Withered | 104 To interweave | 152 Opening |
| 55 Man's name | 105 Impure | 153 Valuable fur |
| 57 Saved | 107 Small stream | 155 Yarn |
| | 109 Playing card | 156 Detergent |
| | | 158 To show |
| | | 160 Appeared |
| | | 161 Sacred picture |
| | | 162 Recedes |
| | | 163 Tenant |

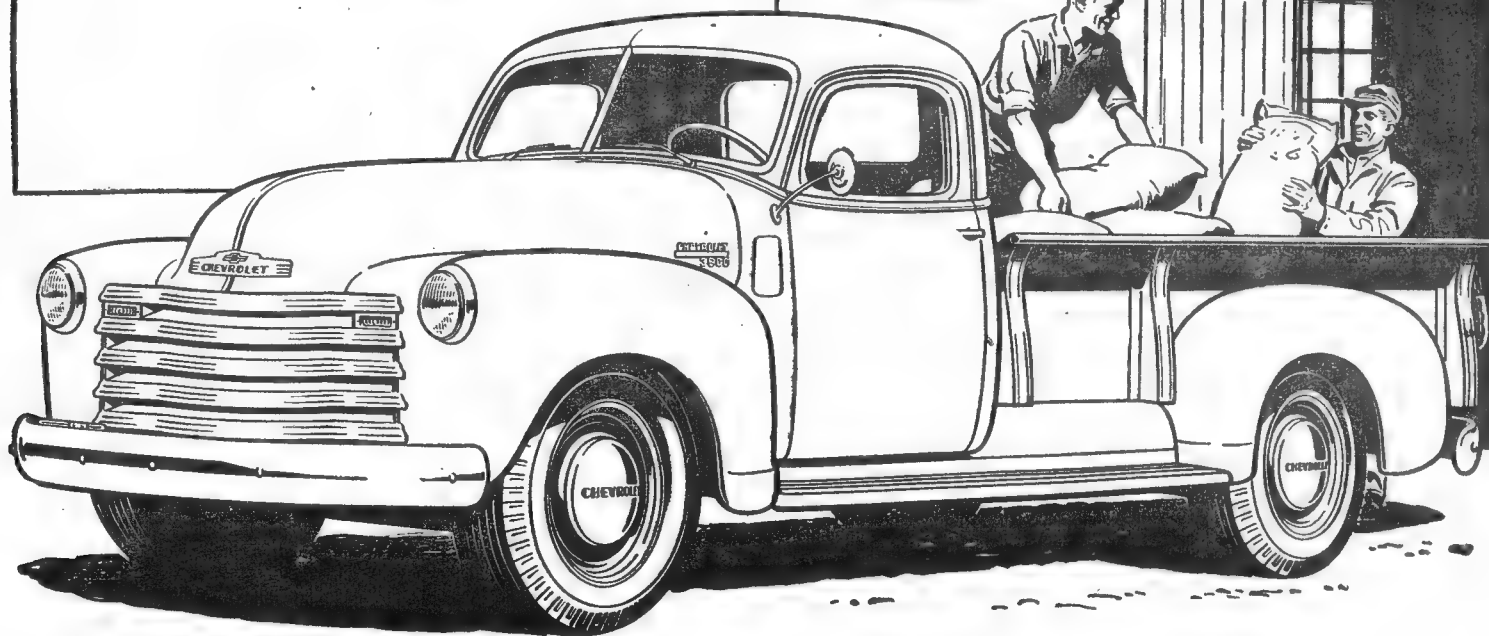
VERTICAL

- | | | |
|---------------------------|----------------------------|-------------------------------|
| 1 Arrogance | 53 Musical drama | 106 Mechanical device |
| 2 To reply to | 54 Card game | 108 Extols |
| 3 Frank | 56 To inspect | 110 Endures |
| 4 Canine animal | 58 Cheered | 111 Type assortment |
| 5 Exists | 59 Tropical fruits | 113 Strikes out |
| 6 Tiresome | 61 Earth | 115 Opposite from wind |
| 7 Pronoun | 62 Victories | 117 Silkworm |
| 8 Simian | 64 Cries of derision | 118 Corrodes |
| 9 Bordering on | 67 Noise | 120 Made of laths |
| 10 Trust | 69 Indigent | 122 Struck |
| 11 To walk on | 71 Disgust | 124 More skilful |
| 12 Brazilian coins | 74 Reads metrically | 126 Astringent fruit |
| 13 Hostelry | 75 One who gives | 128 To discharge |
| 14 To run | 76 Showers | 129 Prejudice |
| 15 Writes informally | 78 Acts | 130 Part of church (pl.) |
| 16 Bovine animal | 81 Babylonian god | 131 Mother-of-pearl |
| 17 Pronoun | 82 Three | 133 Parent |
| 18 Waves | 84 Army officers (abbr.) | 136 Mulberry |
| 19 To enlist | 85 Brood of pheasants | 137 Chop fine |
| 20 Cubic meter | 87 Door side piece | 138 Complete |
| 27 Scent | 88 Danish king | 140 Docile |
| 28 Set | 90 To deduce | 142 Grain pit |
| 30 Skulls | 91 Slipknot | 143 One affecting superiority |
| 33 Play | 92 Small bottles | 145 Enclosed |
| 34 Spanish article | 93 Betwixt | 147 Border |
| 36 Hebrew letter | 95 Sunken tracks | 149 Pouch |
| 37 Oozes | 96 Rebellion | 150 To jabber |
| 40 Disdain | 97 Impure metallic product | 152 French: wine |
| 41 Thin piece of metal | 98 Beef animal | 154 Compass point |
| 43 To venerate | 102 Undertaking | 155 Note of scale |
| 44 Estates | 103 To cook | 157 Added part (abbr.) |
| 46 Looked intently | | 159 Brother of Odin |
| 48 Swiss canton | | |
| 49 Objective | | |
| 51 Parallel of sun zenith | | |
| 52 Taxer | | |

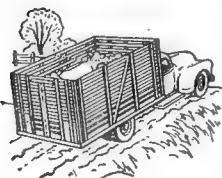
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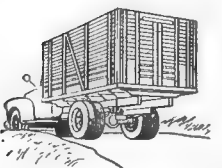
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Prairie hobbies take in everything— from making arrows to photography

Woodworking can be a perfect farm hobby

By T. L. SHEPHERD, West Plains, Sask.

WHEN we bought our 32-volt "Win-charger" lighting plant three years ago last fall, little did I think that it would provide me with a very nice hobby. We thought of how nice the lights would be, how we could operate an electric washing machine and perhaps an iron, but I had no idea that we would be able to use quarter-horse-power motors on a small circular saw, a wood-turning lathe and a power-driven jig saw. I have spent many happy hours building cupboards, dressers and writing desks since then. And to my thirteen-year-old son, it has opened up a whole new field of "Things a young boy can do."

There are many things that a person can do either by hand or by power. Power is always quicker, usually easier and not always better. But make this simple test. Cut a piece of thin plywood with a hand saw. Now cut another piece on a small power saw and notice the difference. It is impossible to make a smooth job with a hand saw, and yet by power we don't even need to use sandpaper afterwards.

Economy is Possible

If you look in the mail-order catalogues, you will see power saws listed from twenty-five to fifty dollars, or more. This was far beyond what I was willing to pay. But take another look, and you will see a saw mandrel listed with bearings for \$2.65. A combination saw blade, that is one that can be used for both ripping and cross-

cut work costs from just under three to just over four dollars, depending on the quality. Or a complete saw outfit for between five and six dollars.

Of course, a saw isn't any good until it is mounted on a saw table. I made mine about two by five feet. The top is just common one-inch boards, the legs are 2 x 2, and I put a strip of the light grade plywood a foot wide around the outside of the legs to brace them.

The saw and the electric motor should both be mounted on a ten-inch board about three feet long. You'll need a light V belt too. This board should be hinged under the table, the hinge being put at the saw end. The other end of the board is supported by a long bolt and a nut. Plug in your electric motor and when the saw has attained speed, bring it up slowly so that it can cut a saw cleft into the top of the table. Now put the nut on the bolt and adjust it until the saw blade shows about an inch through the top of the table. Everything should be arranged so that this blade comes up near the centre of the table top.

With the blade stopped, lay a straight edge along it and make a mark at each end of the table. This will become your line of cut. I bought two cheap yard sticks, some lumber companies give them away, and set them into the table top at each end, so that they are flush with the table top. Next you will need a nice straight board the length of the table and two quilting frame clamps. The motor should be wired with a convenient

switch, and now we are all ready to start.

These small saws need to travel very fast to do good work, or about twice the speed of most electric motors. So a four-inch pulley on the motor and a two-inch for the saw is about right. The V belt does not need to be very tight.

Watch Those Fingers!

The very first thing to remember is to keep your fingers out of the saw. For although a great many people get cut by saws, in almost every case it is the finger that ran into the saw and not the saw that ran into the finger.

If we want to cut a piece of wood five inches wide, we just set the guide board at the five-inch mark, start the motor and carefully push the wood past the saw. You'll be amazed at the smooth, even cut. You can get a nice panel effect with plywood using 2 x 2 posts. But you'll need a groove cut into the 2 x 2 the width of the plywood.

There is a special set of dado blades for this job, but as they cost nearly sixteen dollars, I don't have them. Instead, if I want to cut a groove a quarter of an inch from the edge of the 2 x 2, I set the guide board at the quarter-inch mark. If I want the groove a quarter of an inch deep, I set the blade so that it sticks just that amount through the table top. That is where the long bolt that holds the saw and motor up, comes in. If I want the groove wider than one saw cut, I just move my guide board a fraction of an inch each time I make the cut, until the groove is the required width.

The turning lathe that we have cost nearly twenty dollars, and so far I haven't found a great deal of use for

(Continued on page 41)

SAFETY GLASS for Automobiles
Any Make of Car

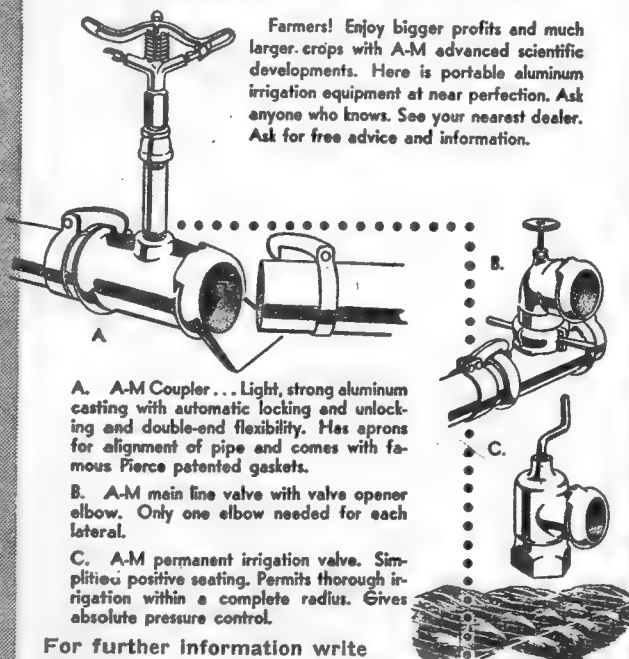
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A. A-M Coupler... Light, strong aluminum casting with automatic locking and unlocking and double-end flexibility. Has aprons for alignment of pipe and comes with famous Pierce patented gaskets.

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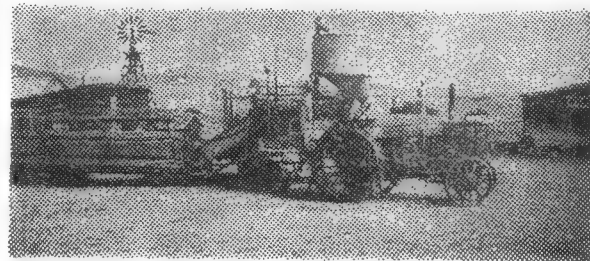
Calgary, Alberta

Ready for immediate delivery.

Night pictures with a box camera

By EMIL LORENTSON, Bindloss, Alta.

I AM a sort of a camera fan and collect pictures of all sorts out of your paper and other papers. Never miss any of dogs and horses and of course I don't altogether black-list women or any nice view, especially if its of some educational value.



Then there are 1,001 articles of interest and of educational value that I clip out and have been accumulating for years, so if I keep it up for a few more years it will be past the hobby stage.

It will be a full-time colossal job to get it all pasted into scrap books.

Anyway it will be interesting and an educational refresher.

Now as to camera — well I never had anything better than a \$1.85 Eaton's sale catalogue Brownie, but I have had some good shots.

I have tried moonlight shots for years, but not much luck till last summer — when I got a dandy, I think.

Am enclosing one of a Case 16 ft. combine and the faithful old 15"-30 McCormick-Deering time exposure moonlight picture, using the little old Brownie.

The hill you see is nearly ¼ mile away, windmill 10 rods, barn 20 rods.

Who said whittling is lost art?

By E. HAGLUND, Mallaig, Alta.



I NOTICE that in your January number you are asking whether there are any whittlers on the prairies. I am a farmer but in my spare time I whittle or carve, whatever you may call it. It is my main hobby. I also paint a little, draw a little and try my hand at taxidermy.

I enclose a snap so you can see some of it.

(Continued from page 40)

it. The truth of the matter is, I just haven't got around to it yet. With this small one, we can turn wood up to twenty-seven inches in length, such as chair rails as well as small things like salt and pepper shakers. With a face-plate, you could turn such things as ash trays and nut bowls. It's really a grand little hobby, while the circular saw can be used for real work.

My thirteen-year-old son bought himself a jig saw, and it is lots of fun too. It, too, cost about twenty dollars. It is really a power-driven fret saw, and with it you can cut some fancy shapes, and circles. With these two saws and the lathe, a person can really do some very nice work. You don't need to be skilled to start with, for you can learn as you go along.

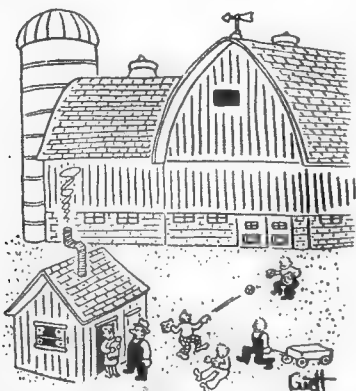
Saskatoon wood makes an ideal bow

MAKING archery tackle is almost as much fun as shooting with bows and arrows. Here in Canada we have several good native bow-woods, such as Western Yew on the Pacific Coast, Saskatoon and chokecherry in the prairie belt, and hickory and ash in Eastern Canada. The Saskatoon is still the favorite bow-wood of the western Indians, and long ago many a giant buffalo was killed by Indian archers using Saskatoon bows.

It's quite an interesting job, making a bow. First, you go out and select and cut a good bow-stave, next, season the wood carefully by keeping it three months in a damp cellar then two months in a hot attic, and finally you set to work with spoke-shave and rasp and knife to fashion a graceful weapon — and you can make either a long-bow in the English tradition, or a flat bow patterned after the Indian buffalo-bow.

Arrows may be made from straight-grained woods like Douglas Fir, Ponderosa Pine, birch, cedar, and even spruce. Some boys make their own arrow-heads out of strap-iron, others buy steel points from the hobby stores. Turkey wing-feathers are used for the arrow vanes, with the cock-feather dyed bright red or yellow or orange. Quivers can be quite fancy, made out of a woodchuck's skin, a piece of deer-hide, or sometimes smooth calfskin on which the craftsman burns his initials and does some fancy tooling.

Making bows and arrows is one of the oldest handicrafts known to man, and still gives us a lot of enjoyment. As Thompson, the American archer, so charmingly phrased it: "So long as the new moon returns in heaven a bent, beautiful bow, so long will the fascination of archery keep hold of the hearts of men."



"Don't be impatient, Dear! Maybe next year we can afford another room for the house."

A metal lathe made from scrap

By CLARENCE A. BOESE, Swallow, Alta.

MY hobby is a small machine shop. It contains a power grinder and plate and centres. I also threaded a home-made metal turning lathe chuck. The toolslide is made of flat driven by a 1/4 H.P. motor. Also a iron and works on the same principle small vise and a few hand tools. as the large ones on shop lathes.

The lathe was made of scrap iron, This machine is capable of turning, four bearings and a piece of shaft-boring and facing. It also is a very ing. I have turned my own drive good drill press. I am now making

a screw cutting device for it.

The dimensions may also interest you. The overall length is 14", the distance between centres is 6" (although shafts may be up to 16" long). The cross slide distance is 1 1/2". This lathe is very handy for model making.

Hardened glue can be softened by placing a few drops of vinegar in the container.

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It attaches directly to bucket hose for rapid filling direct from the "Red-A" bucket pump. Pressure can be boosted to 10,000 lbs. with "Dyn-O-Mite" Gun.

25-lb. CAPACITY.

"RED-A"

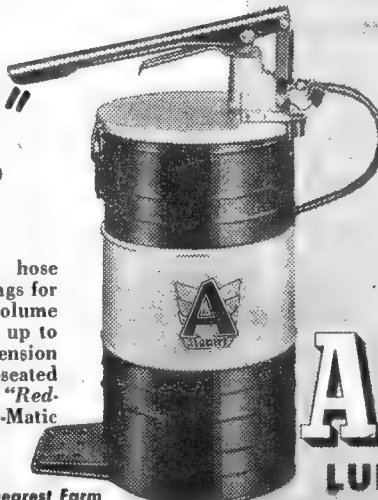
BUCKET PUMP

(No. 7136)

Weights only 14 Pounds!

Its 6-ft. high-pressure hose can be coupled to fittings for rapid greasing of volume bearings and develops up to 3,500 lbs. L-shaped extension snaps on to reach deep-seated bearings. Only Alemite "Red-A" Unit has a Dyn-O-Matic primer to insure constant delivery.

Order today from your nearest Farm Equipment Dealer or write:



Long, Thin Extension
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NOW—use the new seed disinfectant

CERESAN[®] M



No Objectionable Odor

for
**HIGHER YIELDS
BETTER STANDS**

"Ceresan" M is low-cost insurance against profit-stealing smuts, seedling blight and root rot. "Ceresan" M gives two-way protection; kills smut on seed and protects against soil-borne diseases—but does not weaken germination. Yes, for only 3¢ to 4¢ per acre, "Ceresan" M gives you higher yields, cleaner grain...real profit-making crop insurance.

Easy to use . . . Effective . . . Costs Little

"Ceresan" M makes seed treating easy and convenient, too. "Ceresan" M has no objectionable odor, and you can treat seed up to six months before planting time—have it stored and ready for seeding. (Seed should be treated at least 24 hours before seeding.)

Protect your crop . . . increase your profits

This Year, and every year, protect your crop and increase your profits by treating your seed with "Ceresan" M. Available at your local farm supply store.

"Ceresan" M is a new mercurial seed disinfectant replacing the well-known "Ceresan". It is equally effective, with the added advantage of being free from objectionable odor.

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Gladiolus belong in every prairie farm garden

By MRS. CHARLES GILLANDERS, Radway, Alta.

WHY the beautiful Gladiola is not grown by the hundreds in every garden is a complete mystery to me. There is no excuse for everyone not having a few, excepting of course, those people who are blind to nature's beauty.

First of all, they are cheap. You can buy any size bulbs, from bulbets at as many as 25 for a quarter, to bulbs at 5c each, up to \$10.00 or more.

Next, no one can claim they have nowhere to grow them. If you have a vegetable garden, you can grow Glads. You can get varieties that bloom as early as 65 days after germination. They need no special care unless you wish to give extra water and you're surely repaid by beauty received. They multiply rapidly. Their only bother is the storing over winter. If you can keep vegetables from freezing, you can store Glad bulbs anywhere an onion won't freeze. The bulbs are not bulky or dirty. What more can you ask?

If you have considered these points and decided to try your hand at raising Glads, the next step is what to buy, color etc. Ah, — there you have something. You have opened the gate into the most amazing world you would have ever dreamed of. It's an education in itself, something that has been happening all around you for the most part in the last ten years.

The first thing is color. You've seen a rainbow? Add about 20 new shades and you have a field of Gladi-

olus in full bloom. I won't list them, they are too numerous. The unexpected is there, green, near black, bronze, brown as well as all the mixtures conceivable. There are those with throat blotches, pencil lines, those with contrasting margins around each petal, lace filagree covering in every shade imagined as well as contrasting color and shades to the main.

Very important is the time of blooming. Good catalogues will give you approximate dates. You can go out one day and plant several bulbs and if you choose wisely you can have one shade in bloom from as early as 65 days until severe frost. You can start some indoors and have them even earlier. How's that?

That's not all. Take size and form. Is there another species of plant to compare? Take your pick — from one inch to seven and eight inches, each floret. The wee ones, some of them, have faces lifted right up, ideal for nose-gays and such. They'll have anywhere from 3 to 9 blossoms open at a time and as many more showing color in the bud.

Some will have flowers one above the other, each individual, some like butterflies poised for flight. Others come in pairs, one beside the other marching in tight formation, making a whole unit, a sword held to the sky. Then add to all this either plain smooth edges or a frilling and ruffing, as much or as little as you prefer. You can grow them from 3 ft. high to 6 and 7.

Lethbridge will test sprinkler irrigation systems

SINCE the war the use of sprinkler irrigation has extended to new areas, and many farmers in this region have shown great interest in this method of applying water to crops.

In order to secure some first-hand information on sprinkler irrigation under conditions obtaining in Southern Alberta, the Lethbridge Experimental Station is undertaking some detailed studies this year. In these studies the perforated pipe sprinkler system and the rotary sprinkler system are to be compared with the ditch method of irrigation now in general use throughout the irrigated areas of Southern Alberta.

Some of the basic points to be studied will be the ability of the soil to absorb water, the best rates of application, the amount of irrigation needed by various crops, the amount of water wasted, the total cost of installation, labor requirements, and finally the effect on yield and quality.

The perforated pipe sprinkler system operates at low pressures, varying from 2 lbs. to 20 lbs. per square inch, and the rate of application varies from 1 to 2 inches per hour, depending on the size or number of perforations. The rotary type of sprinklers to be used here operate at higher pressures, usually from 30 lbs. to 40 lbs. per square inch, and the rate of application may vary from about .33 inches to less than .20 inches per hour. In contrast, an irrigating stream of 2 cubic feet per second will cover one acre of land 2 inches deep in one hour.

The main object of the studies to be undertaken will be to determine the value of sprinkler irrigation as a method of applying water to different crops under the varying soil and cli-

matic conditions that prevail in this region, and especially to study the economic factors involved, since the feasibility and usefulness of sprinkler irrigation systems for different crops obviously will depend very largely on, the cost of installation, and the cost of operation and maintenance.

Easter Seals for crippled children

EASTER SEALS, similar to those used at Christmas, will help to furnish and equip a wing of the new Junior Red Cross hospital in Calgary for Alberta crippled children.

The Easter Seal campaign is being undertaken by the Children's Hospital Aid Society. The society, formed in 1907, has played a large part in raising funds to provide crippled Alberta children with free hospital care. It has maintained a ward in the Calgary Children's hospital, provided for the needs and ministered to the comfort and entertainment of the children.

Apart from medical attention, children of school age continue with their studies under the supervision of a qualified teacher. Children are encouraged to become interested in handicrafts. Money received from handicraft sales goes to the children.

The Easter Seals are again attractively designed and printed. They are being sent out in sheets to all previous contributors to the work of the Society. Albertans not on the society's lists may still make contribution to this important work for children. Contributions may be sent to Children's Hospital Aid Society, P.O. Box 280, Calgary.

Tips For Sheep Breeders

EWES in good condition should not require any extra feed if plenty of good grass is available. However, if severe weather prevents normal grazing, it is a good policy to provide extra hay or grain. Thin ewes should be well fed for a few weeks prior to mating in order to insure a satisfactory lamb crop.

Check all ewes that have any tendency to be wool blind. Excess wool around the eyes should be plucked out by hand, or removed with shears. A sheep that can see properly is better equipped to rustle its feed.

Nearly all sheepmen follow the custom of providing the ram band with a grain ration for a period of at least one month before the breeding season commences. The usual feed is one to two pounds of oats per head per day. This grain feeding of the rams should be extended throughout the breeding season. The rams can be separated from the ewe flock morning and night for a few minutes so the grain can be fed. After a few days, the rams will be anticipating the regular feeding hour, and there will be no difficulty in separating them. Some sheepmen find that good results are obtained when the rams are separated from the ewes overnight so that the former will have a longer period to feed and rest each day.

The feet of the ram require considerable trimming. A ram does not walk as much as a ewe, and consequently the ram's hoof has a tendency to become too long for good footing. Excess wool in the region of the brisket and belly should be sheared off as it is sometimes the cause of an obstruction.

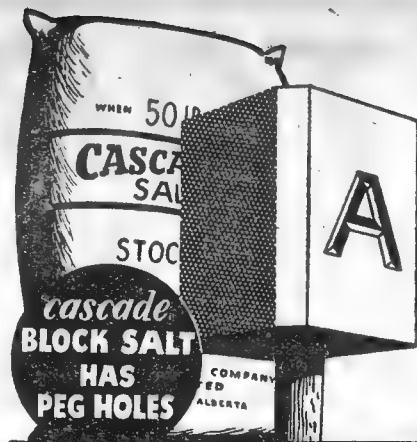
Manitoba announces \$6,700,000 debenture issue

SALE of Manitoba debentures totaling \$6,700,000 payable in Canadian funds and dated March 1st, 1949, has been announced by Hon. J. C. Dryden, Provincial Treasurer.

Purpose of the issue is to provide for the retiral of treasury bills to the extent of \$5,700,000 and \$1,000,000 of new moneys for the Manitoba Telephone System. The issue will provide funds for the following purposes: Manitoba Telephone System, \$3,000,000; Manitoba Power Commission, \$2,875,000; Buildings at University of Manitoba, \$450,000; Highways, \$375,000. ●

Early stainless steels developed before 1916 were used chiefly in making cutlery. Since then new steels containing nickel and chromium which combine non-rusting properties with great strength and toughness have found a wide range of uses in food processing, transportation, architectural and in many other fields.

CROSS ROADS



cascade SALT

an **ALBERTA** quality product ★ iodized plain

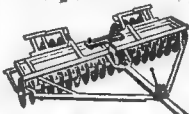
NOW TILL EVERY FOOT OF ROUGH LAND



See New Flexible Design of Kelly Ryan Tandem Disc

R-I-G-H-T N-O-W you can put a stop to "skips" and "gaps" in seed bed preparation. If a field is sloping, gullied, or has a series of hummocks, you no longer have to be satisfied with spotty yields. The new Kelly Ryan Tandem "Land-Leveller" Disc Harrow was made for just such hard-to-work land. Completely flexible. All four gangs ride evenly over any terrain for constant seed bed tillage. Come in and see this amazing Kelly Ryan "Land-Leveller" today.

Also Kelly Ryan Single Cut Discs



KELLY RYAN DISC HARROWS

- **FLEXIBLE:** Rides all four gangs evenly over rough land.
- **KNEE ACTION:** For full floating.
- **SHORTER TURNING.**
- **ADJUSTABLE SCRAPERS.**
- **WELDED FRAME CONSTRUCTION.**
- **POWER ANGLING & RELEASE DEVICE.**
- **PATENTED TRIP.**
- **HIGH QUALITY BLADES:** Spaced 7 inches.
- **LIGHTER DRAFT.**

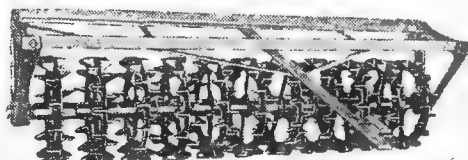
TANDEM DISCS

9 ft. 6 ins. with 16 ins. blades	\$310.00	11 ft. 9 ins. with 16 ins. blades	\$352.00
9 ft. 6 ins. with 18 ins. blades	326.00	11 ft. 9 ins. with 18 ins. blades	383.00

SINGLE DISCS — 15 ft., folding wings, 16 ins. blades \$342.00
A Limited Supply — Prices subject to change without notice.

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The Royal Land Packer, for Tiller, Plow, Drill, or as a Unit Packer, features — Crowfoot Wheel — Heavy Steel Axle Bearings — Heavy Angle Iron Frame — Shockproof Spokes.



Special Wing Attachments for Larger Tractor Units, per set \$10.75
(For pulling 3-section packers as 1 unit.)

6 ft. Tiller Packer, 1 section, 11 wheels	\$87.75	10 ft. Drill Packer, 2 sections, 18 wheels	\$145.35
7 ft. Tiller Packer, 1 section, 13 wheels	\$101.60	12 ft. Drill Packer, 2 sections, 21 wheels	\$175.75
8 and 8½ ft. Tiller Packer, 2 sections, 15 wheels	\$121.45	14 ft. Drill Packer, 3 sections, 25 wheels	\$195.75
9 ft. Tiller Packer, 2 sections, 16 wheels	\$128.70	Special Attachments for Horse-Drawn Units, including Pole, Seat and Wing Arms	\$21.55

FLEXIBLE HARROW

We have greatly improved our Flexible Harrows and believe that we have the finest Harrow on the market. Pulled one way the teeth are straight up and down. Pulled from the other way and the teeth slope back. Roll them up when through using. Ap-
proximately 5 feet in width.
Price, per section

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Private Phone System \$29.50

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This Column Everything \$3.95 Below

SEAT CUSHIONS — For truck or tractor. Excellent condition. War Surplus. Complete with waterproof covers. Regular \$4.00 value. **\$1.49**

OPEN-END WRENCHES — British sizes. Heavy duty. Used. War Surplus. Regular value \$5.95 per set of 5. Now: set of 5 **98c**

CRESENT WRENCHES — Brand new. 8". Regular \$2.00 value. **\$1.49**

FIRE AXES — \$1.55 — 5½-lb. solid steel blade, complete with handle and crash point. Ideal for fire-fighting, camping or fishing. Regular \$4.00 value **\$1.55**

JERRY CANS — Brand new. Ideal for car owners, garages, farmers, ranchers, etc. Capacity, 4 Imperial gallons. Complete with flexible steel spout. Regular \$12.00 value. **\$2.95**

36" HYDRAULIC CYLINDER — Single action. 5-ton capacity. 11" cylinder lift. 3" diameter. Ideal for making your own press. War surplus **\$3.50**

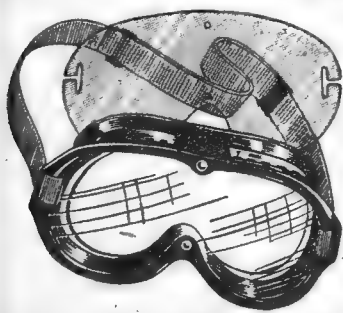
WOOD AIRPLANE PROPELLERS — Make interesting clocks, stands, etc. 7½" long **\$3.50**

TOOL BOXES — 29½" x 21" x 6½". Made of 1" pinewood. War Surplus **\$1.00**

GASOLINE CANS — Brand new. 2-gallon capacity. Complete with lid. Reg. \$3.00 value. Surplus Sale Price **\$1.89**

SHOVELS — Round end, with short "D" handle. U.S. Army Surplus. Bargain priced at only **\$1.19**

POST-HOLE DIGGING SPOONS — Long handle. Ideal for digging telephone pole or post holes. Reduced to **\$3.50**



POLAROID DUST GOGGLES — With extra sun-glare lenses. U.S. surplus. Brand new. Made to fit over spectacles. Regular \$3.00 value. **\$1.49**

SURPLUS SALE PRICE **\$1.49**

SUN GLASSES — U.S. Navy surplus. Plastic frame. High-grade, anti-glare lenses. Complete with leather case. Reg. \$3.95 value. **98c**

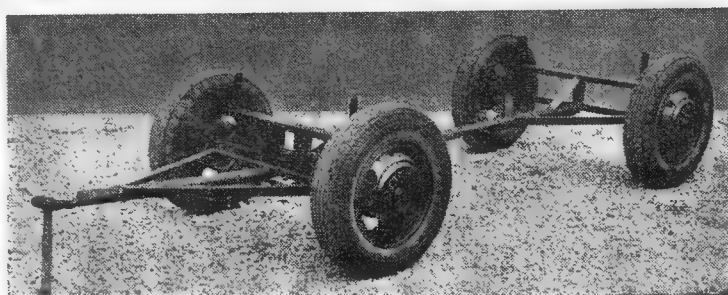
U.S. Air Corps Style SUN GLASSES

Have "Unbreakable" Hard-as-Rock Lenses. Gold-plated frame with sweat bar. Regularly sold at \$10.00. While they last. **\$3.95**

RIBTOR

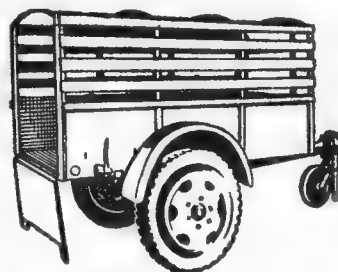
WHICH OF THESE 50 RIBTOR BARGAINS DO YOU WANT US TO SHIP YOU TODAY?

Check over this list for your Spring and immediate needs. Every item is an outstanding money-saver, and one you can use practically every day of the year.



6-Ton 4-Wheel Trailers \$324.50

Here's just what you want for hauling jobs around the farm, or to town. Heavy duty 6-ton, all-steel capacity. Complete with 750 x 20 tires, tubes and wheels. Mechanical brakes and extension reach.



One Ton 2-Wheel Trailers

Size 4' x 7½' complete with 24" oak racks, 750 x 20 tires. Retractable dolly, mechanical brakes. 2 reflector tail lights.

STEEL BOX **\$175** OAK BOX **\$165**

With 600x16 tires, less dolly and brakes.

STEEL BOX **\$165** OAK BOX **\$155**

HEAVY DUTY 15' TOW CABLE

Consisting of: One 9-foot, ¾" steel towing cable and two 3-foot lengths of ¾" chain, complete with hooks and "D" clamps for farm, mine, logging and construction work. Shipping weight, 40 lbs. \$25.00 value for only **4.95**

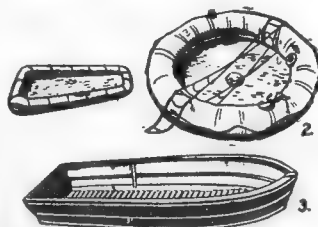
WATER AND HYDRAULIC PUMP

This is an all-steel gear pump manufactured by Canadian Car & Foundry and is complete with stand made of ¾" angle iron, 2½" pulley, ¾" intake and outlet connections. The pump is fitted with a packing nut and grease nipples for lubricating the shaft and gears. The size of the motor required to drive this pump is determined by the amount of head or pressure one wishes to develop. For average farm or home use these pumps can be driven by ¼-h.p. Electric Motor or ½-h.p. Gasoline Motor, and will develop 45 to 50 pounds pressure per square inch, and has a suction lift of 18 - 22 feet. Capacity 120 - 130 gals. per hour **11.00**

110 VOLT ELECTRIC DRILLS

A sturdy, well-built tool that should be in every workshop. Operates on 110-volt A.C. or D.C. Complete with "Cutler-Hammer" trigger switch. ¼" capacity in steel or wood **16.95**

BARGAINS in Government Surplus BOATS



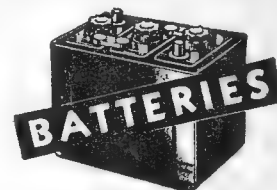
1. Spitfire collapsible rubberized silk. Complete with bellows, bailer, paddles and drogue. SALE PRICE **\$18.95**

2. 5-man collapsible rubber with full set of accessories including hand paddles, knife, bellows, anchors, rubberized nylon for awning or sail, etc. SALE PRICE **\$35.00**

3. Collapsible 12-ft. boat with solid wooden bottom and wooden ribs covered with heavy green canvas. Cutaway back for outboard motor. Oarlocks can easily be added. Only 3¼" thick when collapsed. Easy to carry on top of car. SALE PRICE **\$48.50**

MECHANICAL

Bumper Jacks \$1.98



BATTERIES FOR CARS OR LIGHT TRUCKS — Nationally advertised brand. 15-plate, to fit most cars and trucks; specify make and model when ordering. Regular \$23.95. Brand new! Satisfaction guaranteed **\$11.95**

RADIO BATTERIES — 2-Volt. Nationally advertised make. Brand new. Regular \$7.95. Ribtor price **\$3.95**

BREAST DRILLS — Made in England. Regular \$7.00 value. Sale Price **\$5.29**

FLEXIBLE SHAFTS — ¼" drive. All steel. 4' long. Brand new. Complete with all fittings. Reg. value \$16.95. Now **\$10.50**

FILING CABINETS — 4 Drawer, letter size. Equipped with ball-bearing rollers. **\$68.50**

SLEEPING BAGS — Brand new. Wool lined with zipper opening. Size about 33" x 78". Best quality. "The Sportsman" **\$26.95**

HYDRAULIC JACKS — Brand new. Regular \$12.95 value. Bumper type. ½ price **\$6.50**

BELL TENTS — Used but in good condition. Army surplus. Approximate size: diameter 10 ft. Wall 2½ ft. Surplus Sale Price **\$49.50**

WALL TENTS — 8' x 10'. 2-ft. wall. Brand new **\$19.95**

WALKER HYDRAULIC JACKS — 5-ton, complete with handle. Regular \$27.50 value. Ribtor Price **\$16.95**

AIRCRAFT WHEELS

\$39.50



25 x 11.4. Complete with tires, tube, wheel and Timkin high-speed bearings. Air pressure, 15 lbs. Stands 25" high. Maximum load per wheel, 1 ton.

SPARE TIRE (4-ply. Brand new) **\$8.50**

SPARE TUBE (Brand new) **\$3.50**

5.50 x 4. Complete with brand new tire, tube, wheel and brass brushing type of bearing. Stands 15" high, 5" wide. Ideal for wheelbarrows, warehouse trucks, portable welders, etc. Price complete **\$10.95**

SPARE TUBE (Brand new) **\$2.50**

SPARE TIRE (Brand new) **\$5.00**

BRAND NEW "REGO" WELDING OUTFITS

Consisting of 2 lengths of hose, 2 sets of gauges, 1 welding torch, 5 tips, 1 wrench and 1 pair of welding goggles. Regular \$110.00 value. Surplus Sale Price **\$79.50**

CUTTING TORCHES — Brand new, at **\$34.50**

BRAND NEW 1½ INCH FIRE HOSE

Double jacketed, rubber lined, brass couplings. Will withstand 400 lbs. pressure. Can be utilized for irrigation purposes. 50-foot lengths. Regular market Price \$67.00. On Sale at **\$39.50**

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We reserve the right to limit quantities on any order.

Write for lists of surplus airplane tires, trailers, fire-fighting equipment, hardware, automotive equipment, tools, etc.

WHEN ORDERING, PLEASE NOTE: Send cash in full with order, or send an estimated 25%, and we will ship C.O.D. for balance. If you are at a point where there is no agent (flagstop), please be sure to allow sufficient money for freight or express. Any unused balance will be refunded. Address your Order:

DEPT. "FR" **RIBTOR** 607 - 2nd STREET E. CALGARY, ALBERTA

How much do you know about human races?

PROFESSOR Ruth Benedict of the department of anthropology, Columbia University, and co-author of "The Races of Mankind," prepared the questionnaire below.

The dictionary defines superstitions as beliefs founded on imperfect knowledge or faulty deduction. Maybe some of our beliefs about human races are really just superstitions. Why not try this true-false quiz and find out for yourself.

Check the encircled (T) when you think the question is true and the (F) when you believe the question is false. Give yourself one point for every correct answer you make. Deduct one point for every false answer you make. Thirteen points is the highest score possible in this quiz. The correct answers follow the questions.

1. Nations remain strong only so long as they retain their "racial purity." (T—F).
2. The white race has created all great civilizations. (T—F).
3. High foreheads indicate intelligence. (T—F).
4. Chinese and Japanese have slanting eyes. (T—F).
5. Oriental girls mature earlier than white girls. (T—F).
6. Many residents of India are "Aryans." (T—F).
7. There is a distinct, recognizable Jewish race. (T—F).
8. Jewish people all have dark hair. (T—F).
9. You can always identify a Jew by his nose. (T—F).
10. White people always have higher I.Q.'s than Negroes. (T—F).
11. White people have larger brains than Negroes. (T—F).
12. Negroes have harder heads than white people. (T—F).
13. White blood differs from "colored" blood. (T—F).

My score is _____ points.

1. False—Every nation existing today is a mixture of all kinds of racial groups. And the strongest nation, the United States, is the greatest mixture of all.
2. False—Egypt produced great astronomers, mathematicians, engineers, soldiers — and a civilization that endured for 4,000 years. China was a great and cultured nation for centuries, while Europe struggled through the Dark Ages.
3. False—This belief has no scientific basis. It is not how a man's skull is shaped but what is inside it, that counts.
4. False—Take a good look next time. They have a fold of skin at the inner corner of the eye, but their eyes are set in their heads correctly like every one else's.
5. False—Girls in the tropics are married earlier. But careful medical surveys have established that girls actually mature earlier in the temperate zone than in the tropical zone.
6. True—Their native language is Sandscrit, the original Aryan tongue. There is no such thing as an Aryan "race". Persian, Greek, Russian, German, Italian, French, Spanish and English belong to the same group of languages as Sandscrit, so everybody who speaks these languages is entitled to call himself an Aryan too.
7. False—There is no such thing as a separate Jewish race. What exists is a Jewish religion, which is practiced by members of every race. For example, there are German Jews and Chinese Jews and Negro Jews — just as there are German Methodists and Chinese Methodists and Negro Methodists.
8. False—26 per cent of all English Jews are blondes. So are 40 per cent of all Jews in Jerusalem who arrived

there from Middle and Eastern Europe.

9. False — Dr. Maurice Fishberg measured the noses of more than 4,000 Jews living in New York City. Only 15 per cent had the so-called "typical Jewish nose." And that same type of nose occurs among many non-Jews. An ancient Roman coin even shows that Julius Caesar had what is sometimes called the "Jewish nose."

10. False — In certain northern states Negroes have made a higher average on intelligence tests than whites from some southern states. Typical scores on U.S. army tests: New York Negroes, 45; Mississippi whites, 41. Scientists say no race is "naturally smarter" than the other. The differences are usually due to educational and economic advantages.

11. The size of a man's brain has nothing to do with intelligence. Many geniuses have smaller brains than average, and Eskimos, Japanese, American Indians and Polynesians all have larger brains than the average Canadian.

12. False—Scientists have made extensive measurements of skull thickness. There is no difference between white skulls and Negro skulls on that score.

13. False — There is no chemical or physical test that can tell white blood from red, black or yellow blood once it is in a test tube.

Green Pastures

ONE acre of crested wheatgrass is equal to more than three acres of native grass for spring pasturage. Later in the season this ratio changes so that less than 1½ acres of native pasture will produce as much forage as one acre of crested wheatgrass, provided the pastures are protected in the spring.

Growth of crested wheatgrass is rapid until about mid-June, even if fields are pastured heavily. From then on, growth is much slower, and by mid-July crested wheatgrass has cured and will remain dormant until fall rain starts growth again. However, 90 per cent of its season's yield will be made by about June 20th. On the other hand, native grasses increase their yield until mid-July if sufficient moisture supplies are present. After a short dormant season, certain native species will make a fall growth if August rains are received.

Spring protection of native grassland is necessary if the maximum yield is to be obtained. Native grasses protected until June 15th will yield over twice as much forage as those grazed continuously from early spring to late fall. Protection to July 1st further increases the total forage, but the protein content is lowered considerably. It has been shown that the most critical period of growth of native species is from mid-May to early June. Protection at that time is recommended.

Thus a rotation of crested wheatgrass and native grass will produce more and better quality forage than native grass alone. The crested wheatgrass should be grazed until mid-June, and the native grassland from that date until the end of the grazing season. Plans should be made to provide one acre of crested wheatgrass to every two acres of native sod for a six-month grazing season, starting in mid-May and ending in mid-October. If 20 acres of native grassland are needed to graze an animal through the season, the recommended rotation will reduce the requirement to 10 acres per animal.

FIGHT CANCER

with
• EDUCATION
and
• MONEY

The Canadian Cancer Society 1949 Drive for funds opens April 15. You can do your part to defeat this killing disease by contributing funds for the research, education and treatment program conducted by the society.

GUARD
THOSE
YOU LOVE

Contributions may be made by mail direct to Canadian Cancer Society, 513-8th Ave. West, Calgary, or to your local canvasser.

Give Generously!

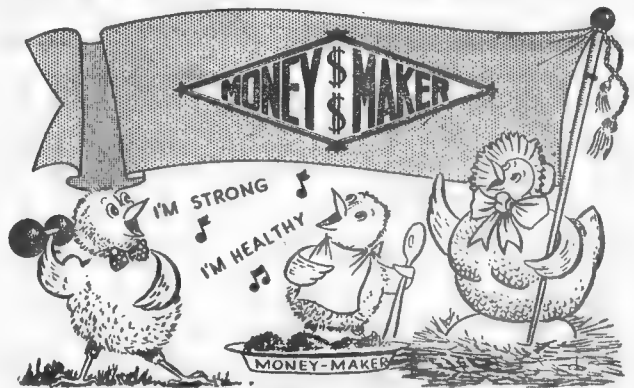
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MONEY-MAKER feeds have gained a wide reputation as a profitable partner in Poultry Production. These Chick feeds provide a perfect balance of all essential elements for nourishing chicks into healthy, vigorous pullets and market birds. Now fortified with Calcium Pantothenate for dermatitis disease prevention and control. Money-Maker is your best investment for poultry profits in '49.

ORDER YOUR NEEDS EARLY FROM YOUR LOCAL U.G.C. ELEVATOR AGENT OR M-M DEALER.



CHICK STARTER
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Or Money-Maker Chick Growing Concentrate

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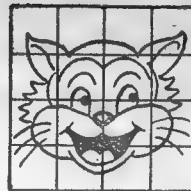
UNITED GRAIN GROWERS LTD.

Over 43 years in service to Farmer and Stockman.

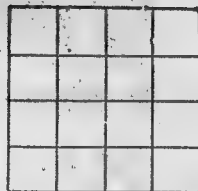
FUNLAND

THE FAMILY ENTERTAINER

BY
A.W. NUGENT
THE WORLD'S
LEADING
PUZZLEMAKER



DRAW
ME
HERE.



D	F	L	O	P
S	E	K	W	H
B	E	R	U	A
T	N	A	L	S
O	T	N	G	E

START FROM CERTAIN LETTERS AND MOVE TO THE NEXT LETTERS, IN ANY DIRECTION, TO SEE IF YOU CAN SPELL THE NAMES OF ELEVEN CREATURES THAT LIVE IN THE NORTHERN REGION. THE ARROWS SHOW HOW TO SPELL "BEAR," TO GIVE YOU A START.

TO WIN THIS OBSERVATION GAME YOU MUST FIND AT LEAST 30 OBJECTS THAT BEGIN THIS PICTURE WITH "H".



11-10-46

(Reprinted by The Associated Newspapers)

A.W. NUGENT

FIND THE THIEF.

I DID - SO WHAT!

WHO STOLE MY BANANAS?

A.W. NUGENT

+ UC -

ADD AND SUBTRACT THE LETTERS, AS INDICATED BY THE PICTURES AND SIGNS, SO THAT THE REMAINING LETTERS WILL SPELL A LIQUID FOOD.

WHAT TWO COUNTRIES ARE REPRESENTED BY THESE PICTURES?

CAN YOU READ THEM?

1. A

2. OH

START ON DOT "S" AND DRAW STRAIGHT LINES FOLLOWING THE DOTS AS THEY APPEAR IN THE WORD "SHINES" AND SEE WHAT HAPPENS

FIND A GOAT AND A DOG IN THIS PICTURE

WHERE ARE THEY?

A.W. NUGENT

SHADE IN ALL THE LITTLE DOTTED SECTIONS WITH A SOFT PENCIL AND YOU WILL MAKE A CERTAIN SILHOUETTE PICTURE

COUNT BY THREES TO DRAW ME.

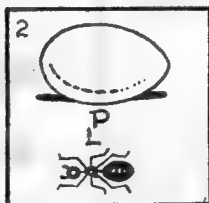
A.W. NUGENT

WORD-WHEEL

WRITE ONE LETTER IN EACH CIRCLE SO THAT READING AROUND IN CLOCKWISE DIRECTION THEY WILL SPELL WORDS TO FIT THESE DEFINITIONS:

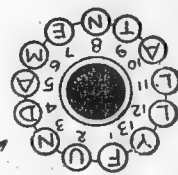
- 1 TO 3, MERRIMENT;
- 1 TO 4, PUBLIC SECURITIES; 4 TO 6, A BARRIER TO PREVENT THE FLOW OF WATER; 6 TO 8, MALE HUMAN BEINGS; 6 TO 11, PERTAINING TO THE MIND;
- 9 TO 12, HIGH IN STATURE; 10 TO 12, THE WHOLE OF;
- 9 TO 13, TO COUNT; 1 TO 13, BASICALLY.

THESE PICTURES REPRESENT THREE VEGETABLES. WHAT ARE THEY?



PUZZLE ANSWERS

VEGETABLE REBUS: 1. PEAS, 2. EGG PLANT, 3. POTATO.



WORD-WHEEL:

BEAR SQUARE. BEAR, AUK, DEER, ELK, GANNET, OTTER, TERN, SEAL, WALRUS, WHALE AND WOLF. REBUS LIQUID FOOD. MOP + GLASS + PIES + UC. R - PIG - CUP = MOLASSES.

"OBJECTS. HAIR, HAIRBRUSH, HAIRPIN, HAM, HAMMER, HAND, HANDLE, HANDKERCHIEF, HARE, HARNES, HAT, HATBAND, HATCHET, HAY, HEEL, HEEL, HEM, HEN, HIDE, HIP, HOG, HOG, HOOK, HORN, HORSE, HORSESHOE, HOUND AND HOLSTER.

TWO COUNTRIES REBUS: 1. CUBA (CUBE A), 2. MOROCCO (MOWER ROCK OH).

HIDDEN GOAT'S HEAD IS ABOVE THE FOX. THE DOG'S HEAD IS CONCEALED ABOVE THE BEAR.

(Reprinted by The Associated Newspapers)

97-01-11

The Farm and Ranch HOUSEWIFE

Second meeting By ANNA E. WILSON

VAL stopped dusting out the pigeon holes long enough to glance at David Roth's lumber mill backed up against a blaze of purple and brown. She opened the window wider to let in the sun. The smell of pines from across the river made her think of young Dave Roth. She sighed painfully.

The phone rang. It was Dave's cousin, Clair. She was excited. "Dave's coming back, Val. The company's moving its headquarters. Come to dinner tonight. And please wear that green dress with the gold belt. Dave loves it."

Val replaced the receiver, her hand shaking. Tonight she'd see Dave Roth. Even when she calmed down enough to sort letters her heart was thumping.

Her hands still full of letters, she took another glance at the lumber mill and now the sun fairly danced on the river and the maples were pure gold. She finished sorting the letters in her hand right down to the last one. She stared at it idly.

Mrs. David Roth. It couldn't have been plainer.

She put the letter carefully in an empty hole and went on working numbly. The post office was quiet. At the noon whistle, she closed the wicket and sat staring at Dave Roth's mill. Two girls entered giggling. Seeing the closed wicket, they took it for granted that the office was deserted.

Polly Rodgers was all agog. "She came in with Dave Roth on the noon train. Blonde and just the right kind of figure." She dropped to a whisper. "They say he was crazy about Val before he went away. I wonder how Val will take it?"

Tieing a scarf about her head with cold fingers, Val knew how she would take it. She'd wear her green dress with the gold belt and — but somehow she couldn't see herself smiling at Dave Roth's wife. She couldn't bear it.

It was scarcely a year ago that Dave had come to work at the mill. Dave's father had a dozen small plants across the country and this was one of them. She'd been working in the mill office helping Peter Rielle, the manager. Peter was due for a long vacation. She'd been bent over typing when he came in bringing Dave with him.

"This is Dave Roth, Val. He's taking over while I'm away." She'd looked right into Dave's eyes. She'd been conscious of a large brown hand in which her own was smothered.

They'd both loved the smell of fresh-cut wood and pine needles that drifted through the window. When she told him about Steve, he'd exploded.

"But, Val. It's true that you and Steve have been going together since you were kids but that's no reason why you should feel you have to stick to him because you're sorry for him. Accidents happen every day and Steve would be the last person to want you to be unhappy."

She'd taken him to the hospital and the minute their eyes met over Steve's wheel chair, she'd known it was all over.

Steve's love and trust shone plainly in the eyes that followed every move she made. He confided to

Dave, "If it wasn't for Val, I wouldn't have the strength to fight on. Tomorrow's the tenth operation."

Dave had wired for a manager to take over and left the next day for company headquarters. She'd taken this job in the post office. She'd had only one letter from Dave — when Steve had died six months ago. She'd felt that Dave was giving her time to get over Steve's death tactfully.

Outside, Val ran into Phil Cross. Phil carried her tray in the lunch room. He scolded her mildly. "It's time you went out more. Ever since Steve died, you've been moping." His kind face twisted into a frown. "Seems to me that if Dave Roth really loved you, he'd have done something about it. Why not forget it all and let me take you to a show tonight?"

Phil loves me, Val thought numbly. She gathered up her purse and gloves. "I'll let you know later. I want to think things over, Phil."

She was thinking it over at mid-afternoon. The letter lay uncalled for. Staring again at the river, Val was thinking of another letter. Steve's letter. She hadn't got it until after Steve died.

"I knew," Steve had written, "it had happened to you and Dave the minute you came into the hospital. I'd have spoken then, Val but I knew that if you married Dave thinking you'd hurt me there would have been a flaw in your happiness. I knew then that it would only be a few months at the most and Dave isn't the kind to love lightly."

Steve had loved so much. Had understood so much. Had he been right about Dave? Was that letter just a part of a nightmare? She took it out and read over the address.

The DISHPAN PHILOSOPHER

IT'S plain the plans of mice and men have all gone haywire once again. I thought I'd surely canned enough of every kind of garden stuff to see us easily get by till June, or maybe till July. But now with April just begun our stock on hand is next to none. I guess I'll have to get some more which means an order at the store. And that's not easy days like these for money doesn't grow on trees. Believe you me, next winter's needs will all be raised from plants and seeds. And when my canning plans take shape no bean or berry will escape.

We live here on the squirrel plan — all summer long we can and can. Then from our sealers sour and sweet; all winter long we eat and eat. The bears load up and in their lairs sleep winter out — but folks ain't bears!

Mrs. David Roth. Blonde with a nice figure.

Her hands hesitated between the suit and the green dress. If she went out with Phil tonight, he'd ask her to marry him. He was kind and honest. Her hands ran smoothly over the suit. In the pocket something crackled. It was Steve's letter. Steve hadn't blamed her for loving Dave. He had tried to smooth the way of her happiness.

The green dress made her hair look leaf brown and her eyes like spring water. In the doorway of Claire's living room, her courage faltered.

Claire's voice steadied her. "You're late, Val. We're all waiting." Across the room, her eyes found Dave's. He smiled broadly. "Come over here, Val, I've someone to show you."

Val was conscious of smooth shining hair and gay eyes. She's older than she seems, her mind registered. Then Dave's voice cut through the fog in her brain.

"What do you think, Val. Dad's moving his headquarters here, lock, stock and barrel. He's coming tomorrow but I brought Eleanor along to help pick out houses. Val . . . this is Mrs. David Roth . . . my step-mother."

(Copyright)

□ □ □

A new Easter novelty

By KAREN BLYTHE

IF you like gay decorations and colorful novelties for the Easter season try Easter egg candles. They are easily made and will delight the heart of any child.

To make the candle, prick a hole, just large enough to pass a string through, in the pointed end of an egg. Make a larger hole in the blunt end of the egg and shake the contents out (in a clean dish for future use!), rinse and let dry. Do not pull the membrane out or tear it. Thread a string through the pointed end of the shell and out the larger opening. Put the shell on a table, point down, and support it with a strip of rag—then pour the wax into this mould.

Ordinary paraffin such as we use to seal jelly jars is melted for this purpose. To give color, old candle stubs or bits of crayon are added to the melting pot. The liquid wax is poured into the eggshell and left to harden. As the cooling wax will shrink, the shell will have to be re-filled until the wax hardens level with the top.

When the moulding is completed chip the shell off and trim the wick. If there are any irregularities, rubbing the candle with the palm of the hand will smooth them out. Decorated with oil paints and attached with hot wax to an old saucer also painted and decorated, the Easter egg candle makes a gift much more healthful and much longer-lasting than the conventional chocolate egg.

□ □ □

Under the Lid

The lid should be kept tightly on the pot when cooking vegetables. When the lid is off, valuable vitamins and minerals escape and the cooking time is extended. With the lid on, the food is not only more nourishing, it's more tasteful too.

Paying the Price

Crowded, crooked, irregular permanent teeth are frequently the price that must be paid for the premature loss, through lack of care, of the baby teeth. Don't allow your child to become a dental cripple by succumbing to the myth that the foundation teeth are of little value to a child.

In every Canadian home throughout the land, eggs are served on Easter; it's as traditional as the beans of Boston, the fried chicken of the Deep South. The only difference is that this Easter-egg tradition is a national one.

The youngsters look forward to coloring eggs at this season. And with food dyes as pure as they are, they can be allowed to dye as many as they wish, for the eggs are perfectly usable later on. Shelled, they can be used for creamed eggs, egg salad and egg sandwiches, stuffed, or in any number of other ways.

Every housewife knows many ways to serve eggs for Easter breakfast, but here is a good Easter supper dish. Served hot, with bran muffins, a crisp salad and a hot drink, the whole family will say it's a grand way to finish off Easter eating!

POACHED EGGS IN MUSHROOM SAUCE

- 4 tbsps. butter
- ½ lb. fresh, dried or canned mushrooms
- 3 tbsps. flour

IS BACKACHE JUST A SIGN OF AGE?

Many people suffer an aching back needlessly—believing you must expect a few aches and pains when you're "getting on" in years!

But backache is often caused by the faulty action of kidneys and liver. See how much better you feel after taking Dr. Chase's Kidney-Liver Pills, and your kidneys and liver both filter out impurities from your bloodstream. That's because this time-proven Dr. Chase remedy treats two conditions at once—contains special remedial ingredients for both the kidney and liver disorders which often cause backache.

If you're feeling worn-out, tired, headachy—with painful joints and aching back—look to your kidneys and liver. Try Dr. Chase's Kidney-Liver Pills tonight. At all drug counters. 16

EASTER IS EGG TIME!

By LOUISE PRICE BELL

- 1 tsp. salt
- 1 tsp. Worcestershire sauce
- 2 cups milk
- 4 eggs
- Toast points

Melt butter and cook mushrooms in it for 5 minutes. Then place mushrooms in a greased one-quart glass dish, leaving liquid in saucepan. Stir flour into mushroom liquid, add salt, Worcestershire sauce and milk. Cook slowly, stirring constantly until thickened. Pour the sauce over mushrooms and drop uncooked eggs in sauce. Arrange toast points about eggs, bake in moderate oven until eggs are firm (350° F. about ten minutes).

Another simple way to prepare eggs for supper, and a way that the youngsters can do when Mother is away is "Tomatoed Eggs". To prepare them follow these directions:

TOMATOED EGGS

Empty a can of commercially canned, or home-canned, undiluted tomato soup in a glass pie plate. Into this break as many eggs as there are to be persons at the meal. Put in a 350° F. oven and bake until eggs are set. Sprinkle with paprika, and serve one egg on a piece of toast, then pour some of the tomato mixture over both.

And here is another tomato and egg mixture, with cheese added. This makes it a heartier dish and is a good one to use when you find that you have some extra cheese.

SCOTCH WOODCOCK

- 1 can tomato soup
- 1 lb. cheese
- 2 eggs

Heat the soup, then add grated or cut-up cheese, and stir until partially melted. Beat eggs well, then stir into the tomato mixture for about three minutes. Serve over crisp crackers garnished with a slice or two of home-canned pickle and ac-

companied with coffee. This makes a hit with the men, and is a good Sunday night meal.

LUNCHEON EGGS

(This is a splendid "beginning" dish for the children, as it is practically sure to be just right. And it is delicious as well as nourishing.)

- 3 eggs
- ½ tsp. salt
- 1 cup milk

Break eggs in bowl, add salt, and beat until light. Grease the top part of double boiler, pour mixture in, set over simmering water in bottom part and let cook 30 minutes without stirring. These will keep for a long time so are good to plan when Father will be later than usual.

MACARONI AND EGGS

- 8 ounce box of macaroni
- 6 tbsps. butter
- 5 tbsps. flour
- 2½ cups milk
- 1 tsp. salt
- 5 hard-cooked eggs
- ¾ cup corn flakes
- 2 tps. melted butter

Cook macaroni in boiling, salted water until tender, then drain and rinse in warm water. Melt butter, blend in flour, add milk gradually and stir constantly. Cook until thick; add salt. Slice eggs, then mix with macaroni and sauce and turn into shallow casserole. Crush corn flakes into crumbs, mix with melted butter and sprinkle over top. Bake in hot oven (450° F. for 20 minutes).

EGG CUTLETS

- 2 tbsps. finely chopped onion
- 2 tbsps. finely chopped green pepper
- 1½ cups milk
- ½ cup flour
- 4 tbsps. melted fat, or drippings
- 1½ tps. salt
- ¼ tsp. pepper
- 2 tps. Worcestershire sauce
- 8 hard-cooked eggs, chopped
- 2 eggs, slightly beaten
- 3 cups Rice Krispies

Heat onion and pepper in the milk. Blend flour with fat, stir into hot milk mixture. Add seasonings and cook slowly, stirring until smooth and thick. Remove from heat; fold in hard-cooked eggs. Spread ¼" thick in shallow greased pan and chill until firm. Cut into squares, mold into cutlet shapes, then dip each cutlet into finely powdered rice flake crumbs and fry in shallow hot fat, ¼" thick, until browned. Turn once. Serve very hot. (Makes 12 2½" cutlets).

HIDDEN TREASURE CASSEROLE

- the eggs are the treasure
- 3 cups medium white sauce
- ½ lb. cheese — diced
- 1 lb., or 1 can of mushrooms (optional)
- 3 cups diced left-over ham (cooked)
- 1 quart cooked noodles, chopped slightly
- 6 hard cooked eggs
- Buttered bread crumbs

Place sauce over boiling water, in top of double-boiler and add diced cheese and mushrooms (if used), cut up. If mushrooms are not used, coned peas may be substituted if desired. Cover and cook 20 minutes, then add ham and noodles and pour into casserole and sprinkle with fine bread crumbs. Cut the hard-cooked eggs in half, lengthwise and place evenly around outer edge of dish, pressing down into mixture so that they won't dry out and will be slight-

ly "hidden". Bake only until crumbs are browned.

DE LUXE SCRAMBLED EGGS

—a good supper dish

- 6 eggs
- 4 wieners, cooked
- ½ cup milk
- 1 large sprig of parsley

Beat eggs with rotary egg-beater, adding milk at the last and beating also. Cook wienies 3 minutes, remove from water and slice thinly into the egg mixture. Pour into buttered skillet and stir constantly until thick and creamy. Pour over buttered toast and sprinkle either a small spray or two of parsley, or finely cut up pieces, over the top. Add dash of paprika for additional color and serve piping hot.

BACONIZED BAKED EGGS

—Sunday morning treat

Line individual custard cups with strips of bacon, then break an egg into each, sprinkle with salt and pepper and bake until eggs are firm and bacon crisp. Lift out onto hot plate, or on rounds of buttered toast.

When you get too much rouge on one cheek, lightly sponge off the extra color with a tissue until both sides match.

□ □ □

Have it your way



9491
SIZES
12-20

WHAT do you need for spring? This pert little peplumed two-piece! Skirt has built-up top, can be sundress or datedress depending on fabric. Make it twice!

Pattern 9491 comes in sizes 12, 14, 16, 18, 20. Size 16 sundress and jacket, 4½ yards 39-inch.

This easy-to-use pattern gives perfect fit. Complete, illustrated Sew Chart shows you every step.

Send **TWENTY-FIVE CENTS** (25c) in coins (stamps cannot be accepted) for this pattern. Print plainly **SIZE, NAME, ADDRESS, STYLE NUMBER.**

Send your order to Farm and Ranch Review, Pattern Department, Calgary, Alberta.

She can join in the fun...



WITH YOUR HELP

Crippled children from all over Alberta receive the skilled treatments and special care needed to straighten and strengthen deformed bodies and limbs at the Junior Red Cross Hospital for Crippled Children in Calgary.

You can share in this work of restoring handicapped children to a happy and useful life by supporting the Annual Stamp Campaign of the Children's Hospital Aid Society.

HELP
Alberta's Crippled Children
SUPPORT THE STAMP CAMPAIGN

Send Contributions to
CHILDREN'S HOSPITAL AID, P.O. Box 280, CALGARY



The Hobby Corner

China, Antiques, Curios

By MRS. MARY WEBER,
Sedgewick, Alta.

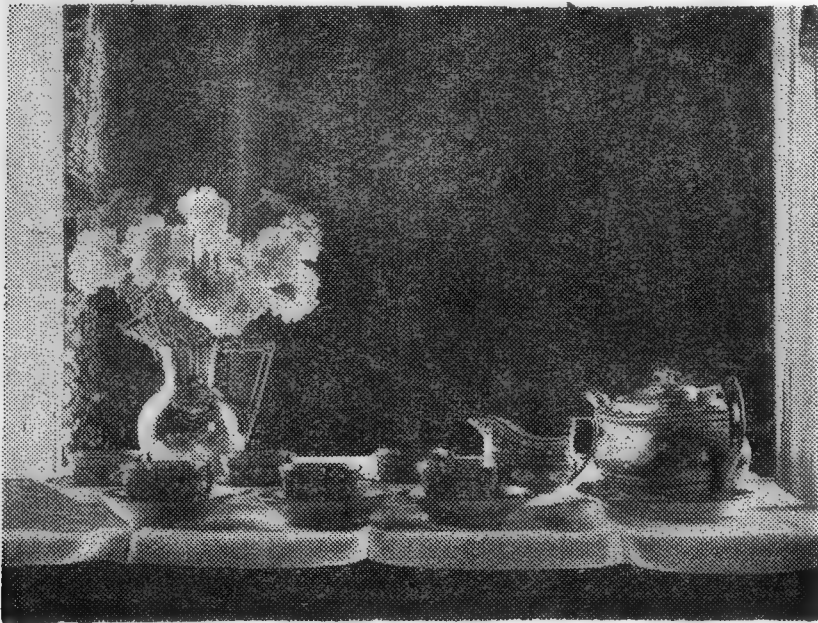
HAVE any of you farm women ever attended an auction sale and been attracted by some particular article, bid the sum of thirty-five cents and have it knocked down to you to discover it was a very desirable piece of pottery? This has been my experience and introduced me to the pleasures of collecting china antiques and curios.

My first experience was at the above mentioned auction when I pur-

service (1815) — a pair of Sheffield plate chamber candlesticks (1815). A Baxter print of "The Last Supper", an old American glass flask (1830), two early Victorian blue glass perfume bottles, a small Bohemian ruby glass vase, also an early Wedgewood vase, and various brass and copper kitchen utensils.

My curio collection consists of articles from North and South America, Africa and Asia.

The curios of immediate interest is a collection of Indian arrowheads and other Indian relics found on our farm.



Spode tea service (1815).

chased a Doulton vase for thirty-five cents, later I bought a second Doulton vase for thirty-five cents. A fine brass candlestick was also acquired for thirty-five cents.

These purchases created in me an interest in old china and to become better acquainted with the subject I obtained books on Ceramics from the University Extension Library which confirmed my opinion and created further interest.

The Doulton vase was an early specimen of that vase stamped with the date 1873 and the artists mark. The other vase was a genuine Doulton but of a later date. Though I have no definite clue as to the exact date of the candlestick, I have it on good authority that it is a desirable piece.

Since then my interests have been extended to other antique objects which happen to have come my way, in my collection I have a Spode tea

Other things include silver and leather work from Peru, butterfly wing artistry from Brazil, silver spoon from Panama, pottery from Mexico, leather and inlaid woodwork from French West Africa, lace from Malta, carved silver buckle from India and from Hong Kong a carved Chinese lacquer vase, fans, carved ivory, etc.

It will be observed by anyone who reads this list that the collection is very varied, but variety increases the interest and pleasure. Anyone with a leaning in this direction will find it well worth while to cultivate that leaning.

Such a collection cannot be assessed by its material value but by the satisfaction and knowledge gained in assembling these things. The accumulation of objects in itself is merely incidental to my hobby, it is the history and associations of those objects which make it worth while.

□ □ □

Stencilling

By ARNETTE STEVENS
Brilliant, B.C.

BEFORE the days when I had a family of small children to look after I used to crochet and embroider for hobbies. But with the arrival of the babies my spare time was almost gone, so to satisfy my craving to make something pleasing to the eye in a hurry I turned to stencilling. It was just what I wanted as I can make a great many really beautiful household articles with a minimum of time and cost.

I trace ships, flowers, butterflies or other designs on heavy brown paper (the kind that comes around Eaton parcels). Cut these out with a razor blade and place the pattern on the cloth. Color this with ordinary school crayons. To make it washable, place face down on blotting paper and

rub the back with a warm iron until the wax shows through.

In a few spare moments one can have a bright new table cloth, new curtains, buffet set, machine runner, etc. All that is needed is a box of crayons and some unbleached cotton.

Of course you can buy cloth paint for stencilling if you prefer it to the wax. If you use this wet paint you must cut your designs out of waxed or brush melted lard or paraffin wax over your brown paper.

If I can't find a design that I like I just fold paper and experiment cutting out flowers or animals. I often amaze myself with really nice designs.

□ □ □

Unusual Hobby

PERHAPS my type of hobby cannot qualify — however —

Seventeen years ago my Mother cut her hair for the first time, giving

all nine children a small braid as a keepsake. This started my hobby.

My collection — to me — is beautiful, from silver white to blackest black, (even a lock from my departed persian cat). Each curl is tied with suitable string or ribbon, name of person, and date when cut, then carefully arranged on absorbent cotton in large flat box.

Many locks were from boys who later went overseas, some who never returned, and so to me, my hobby becomes more interesting as time passes, and memories of each as I look over the tags.

Some day I shall put them behind glass, so they can be seen and admired, and yet stay dust-free —

Mrs. Melvin Petterson,
Faust, Alta.

□ □ □

Graph-texting a fascinating hobby

By MRS. EDNA ELDER,
Nakusp, B.C.

I saw a little note in your Farm and Ranch Review asking to hear from anyone who is interested in a hobby. This has inspired me to write and tell you about my hobby.

How many have heard about Graph-texting? I have worked this hobby now for three years, and find it most fascinating as well as economical for those persons who are not in a position to spend a great deal on their hobby. Graph-texting is done with a needle which costs \$1.00. Send to Graftex Needle-Craft, 5110 Oakland Ave. Minneapolis 7 Minn. You also require a spool of carpet warp. They are about 60 cents a spool I believe. First you must learn the texting stitch, for which full directions come with the needle. Now you are ready to begin your first piece of Graph-texting. I have made one very lovely rug with a ship design from dyed fleece lined underwear. Another rug from left over bits of print, another from left over bits of rayon, and one from flannelette. A chair back from worn out rayon dresses dyed the same color as they were originally. A chesterfield chair set from dyed flannelette sheets. Another chair set made from all new material which is very nice indeed, and now I am making a knitting bag from old worn out silk stockings dyed the necessary colors.

I have been speaking a great deal about old materials, and dyeing the different colors, but that is only because I am a housewife and like to practice economy. The articles are really more beautiful and lasting made from new sun-fast material. Articles made from new material would also have a sale value for anyone wanting to make a little money from their hobby.

The cloth is cut in ½ to ¾ inch strips, on the bias. Any cross-stitch or filet crochet pattern may be used. The texting needle is threaded with the carpet warp. Then you text right down the centre of the strip. When your rug, or whatever you are making is finished it is exactly the same on both sides, and so reversible. Any kind of cloth may be used and the number of things to make inexhaustible. Flower motifs may be used for pot holders or table mats. Cushion tops, rugs, chair sets and shopping bags are the things I have made up to the present time, and I have plans for many more things. For the housewife who has boxes of old stuff around and wondering what to do with it. This is the answer to the question she has often asked herself, "What am I going to do with all that junk?"

(Continued on page 52)

60 Years

of use

have proved

ensures

baking

success

Sweet 'n tasty!



it's a sure-fire winner!

A festive touch for any meal—this delectable Swedish Tea Ring—richly spiced with cinnamon and currants. The family will pronounce you “best cook ever”—if you make it with modern Fleischmann's Royal Fast Rising Dry Yeast!

IF YOU BAKE AT HOME—you'll be thrilled with this

amazing new yeast which gives you the fast action and finer results of *fresh yeast*—yet keeps full-strength in the cupboard for weeks!

Nothing like Fleischmann's Royal Fast Rising Dry Yeast for tasty buns, rolls, dessert breads. Get several packages at your grocer's today.

SWEDISH TEA RING

New Time-Saving Recipe—Makes 2 Rings

Measure into large bowl . . . $\frac{2}{3}$ cup lukewarm water,
1 tablespoon granulated sugar
and stir until sugar is dissolved.

Sprinkle with contents of . . . 3 envelopes Fleischmann's Royal Fast Rising Dry Yeast.
Let stand 10 minutes, THEN stir well.

In the meantime, scald . . . $\frac{2}{3}$ cup milk.

Remove from heat and stir in . . . $\frac{1}{2}$ cup granulated sugar,
 $\frac{1}{4}$ teaspoon salt,
6 tablespoons shortening.

Cool to lukewarm and add to yeast mixture.

Stir in . . . 3 eggs, well beaten

Stir in . . . 3 cups once-sifted bread flour and beat until smooth.

Work in an additional . . . 3 cups once-sifted bread flour. Turn out on lightly floured board and knead dough lightly until smooth and elastic. Place in greased bowl, brush top with melted butter or shortening. Cover and set dough in warm place, free from draught. Let rise until doubled in bulk. Punch down dough and divide into 2 equal portions; form into smooth balls. Roll each piece into a $\frac{1}{4}$ -inch thick oblong. Cream until soft . . . $\frac{1}{4}$ cup butter, and mix in . . .

1 cup brown sugar (lightly pressed down),
2 teaspoons ground cinnamon.

Spread this mixture on oblongs of dough and sprinkle with . . . 1 cup raisins or currants.

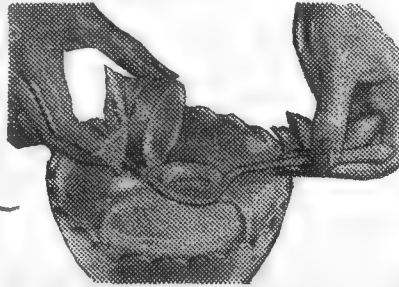
Beginning at a long edge, roll each piece up like a jelly roll; place each roll on a greased large baking sheet and shape into a ring, sealing ends together. Grease tops. Cut 1-inch slices almost through to centre with scissors and turn each slice partly on its side. Cover and let rise until doubled in bulk. Brush with 1 egg yolk beaten with 2 tablespoons milk. Bake in moderate oven, 350°, 25 to 30 minutes. If desired, spread tops, while warm, with a plain icing. Serve hot, with butter.



Household Hints

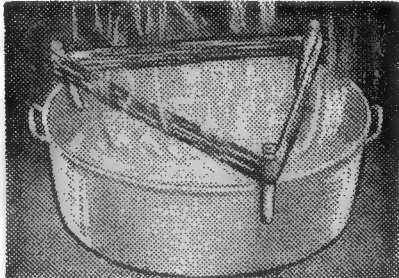
By Courtesy of the "Popular Mechanics Magazine"

CHEESECLOTH ACTS AS STRAINER



SQUEEZING a lemon through cheesecloth is an easy way to obtain a small quantity of strained juice. The cloth is moistened with water so it will not absorb the fruit juice and then fastened over the end of the lemon with a rubber band.

STEAM YARN FOR REUSE



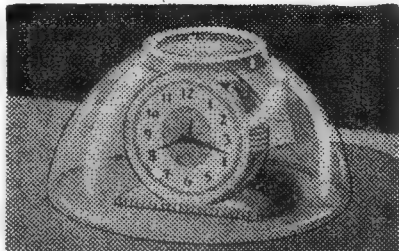
YARN from old sweaters or dresses can be reused if the kinks are removed by steaming over a pan of water. To do this, slip three clothespins over the rim of the pan and wind the yarn around them. It takes only a few minutes of steaming to strengthen the yarn for reuse.

GUARD ON SEWING MACHINE PREVENTS INJURED FINGERS



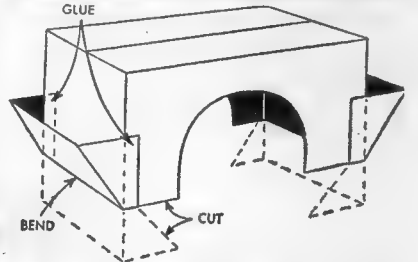
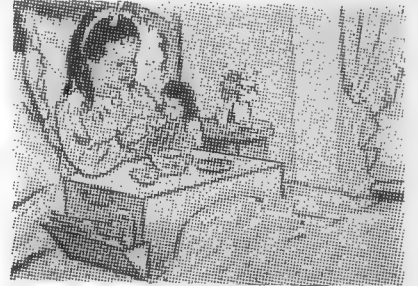
IF your sewing machine has a spoked handwheel, facing the wheel with a cardboard guard will reduce the possibility of the children injuring their fingers. This also makes the machine safer for the operator. Just cut a cardboard disk to fit the wheel and tie it to the spokes with pieces of string or strong thread.

MUFFLE CLOCK WITH BOWL



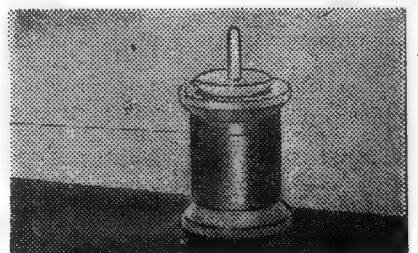
IF loud ticking of an alarm clock disturbs your sleep, you can muffle it and still read the time if a glass bowl is inverted over the clock as shown. Use a bowl made of clear glass.

CARDBOARD BOX FORMS BED TABLE FOR CONVALESCENT CHILD



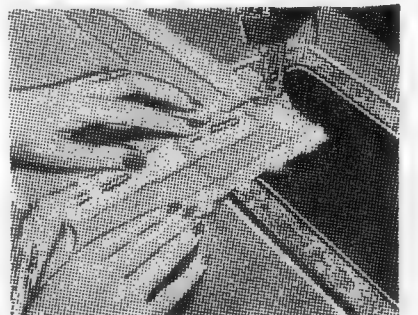
A SMALL child confined to a sick-bed for a few days will appreciate a play table made from a cardboard box. The bottom of the box forms the table top and the sides are arched so the box will fit over the child's legs. If the box is deep enough, the ends can be cut and bent upward, as shown, to provide pockets for toys and books. The table can be brightened by painting it and adding a rope handle to each end. The handles are both useful and decorative.

THREAD CONTROLLED BY RUBBER WASHER



RAPID sewing by machine will not cause the spool to spin and unwind the thread too rapidly if a rubber faucet washer is placed over the spindle end on top of the spool to serve as a friction brake.

HAIRPINS SAVE BASTING



HAIRPINS fasten hems of marquisette curtains for machine stitching. Using hairpins saves much time spent basting and removing threads and does not damage the curtains.

CORKS PROTECT HANDS

IF small corks are slipped over the pointed ends of your knitting needles and crochet hooks, there will be no danger of injuring your hands when you reach into your knitting bag.

Aunt Sal Suggests . . .

*Oh April is the happy month,
That ushers in the spring;
It also brings some handy hints —
Do catch them on the wing!*

I've always sort of pitied countries like California and Florida that had warm weather all year round so couldn't experience that wonderful feeling of seeing winter leave and spring arrive to take over. There's nothing quite like it . . . we in western Canada know all about it.

There is no earthly thing entirely perfect, so the glories of the spring are partially marred by the mud. What aggravating, tenacious stuff it is that same mud. And the prevalence of mud suggests house cleaning. Of course that word, house cleaning has been burning a hole in the thoughts of most home makers for two months now. There was a false preview of spring in February that made every woman sniff the air and muse: "I wonder if it would be silly to start house cleaning this soon." . . . Of course it would have been and of course she didn't!

I wonder if I'm wasting time to beseech all you women who are ready to throw yourselves headlong into violent cleaning gymnastics . . . to approach the whole business with less gusto this year. A slower, quieter procedure is easier on the furnishings . . . on yourself . . . and easier on the family. (Maybe you think there's plenty room for argument there. But give it careful thought before you sputter over like a too-full kettle onto a hot stove.)

I intend to do this, this spring, and I do wish that some of you would do the same. Before I start heaving mattresses out the door and dragging down the curtains, I'm going to spend one week in doing those small irksome tasks like cleaning out the clothes closets and cupboards and cellar shelves. With order restored in those regions I know a whole slice of my mind will be at peace and then I can attack the other clean-up jobs with a clearer conscience.

Easter comes at just the right time this year. Do you feel that way too? The years it comes in March, we know beforehand it is bound to be a blustery day not even dimly associated with potted lilies . . . short socks . . . posy-wreathed hats. Funny isn't it right up until Easter our winter duds fill the bill as long as they are warm and comfortable; but when we are forced to don them on Easter Sunday, how suddenly drab and dull and even shabby they look. We feel we are within our rights to feel that way too for doesn't Mother Nature herself always deck herself in a brand new garb each spring? Why shouldn't we too!

In a recent issue of this magazine I remarked that I wished the readers of this page would write me . . . telling me what they did or did not like about it . . . for I like to get letters too! There was a generous response to my invitation . . . now I say "Thank you" to all the kind ladies who did take off time from their busy day to write. And I especially liked the letters that contained attractive hints to share with the rest of you. I've listed some of these hints below under the heading:

Other Readers Suggest:

When you take down your heater this spring before storing it in the garage (or wherever it spends its summer vacation) number the stove pipes with chalk . . . saves much time and figuring when putting to use again next fall.

Mix flour and sugar together before adding to a juicy pie and this mixture will not lump and will retard the juicy run-over too.

Pierce small holes (with a knitting needle) in an orange or grapefruit and insert short stemmed flowers in these holes. Makes a very pleasing table-centre arrangement.

Instead of boiling vegetable marrow it's a fine change-off to dip slices of it in egg and crumb mixture and fry.

Before re-papering a room cover any greasy spots with zinc paper, then the stain won't come through.

I want to offer my congratulations to the United Church Choir at Kennedy, Saskatchewan for the splendid job they did in compiling a really worth-while cook book. I was delighted to receive a copy of this 'Practical Guide to Good Cooking' and proud to add it to my collection of cook books. Those of you who have been regular readers of the Aunt Sal page during the past five years know that I'm a great believer in everyone holding fast to their individuality . . . yet not being backward in trying out any new ideas that cross their paths. So, as I leafed through the pages of this cook book from Kennedy I admired the little touches that marked so many of the recipes as 'a bit different'. For instance the Gum Drop cake calls for one cup of apple sauce; The Date Cake has just a whisper of nutmeg in it; The Tomato Soup Cake includes $\frac{3}{4}$ cups of walnuts; There are Molasses cookies without one bit of shortening; and imagine a steamed pudding that only requires one-half hour to bake? . . . Oh indeed not all the wonderful recipes come out of high-powered modernly equipped test kitchens. No indeed! The most mouth-watering dishes that ever 'slipped down easy' came out of little homey kitchens in little prairie homes in the west.

So bye bye for now . . . and every good wish!

AUNT SAL

□ □ □

Hand In Hand

Health and happiness go hand in hand with each other. Happiness is essential to good health, especially at mealtime. Disputes and unpleasantness at the table spoil digestion and ruin the effects of an otherwise nourishing meal. Happiness, on the other hand, gives an added zest to the meal. Leave unpleasantness behind when mealtime rolls around.

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Country Diary

APRIL is a pretty, soft-sounding name for the month that follows on iron-hard, long winter. April is the running of freshets of melting snow, the greening of the grass and the rising of sap in the willows and poplars. It is the chirping of sparrows in the pleasant showers that bring May flowers, robins strutting across the house-yard, the opening of silver-mauve petals on the roadsides and pastures, and an exultation in the human heart that the eternal miracle of growth has happened again. Literally, April means "opening," which is no more manifest than in the outspread, lovely crocus petals, the prairies' own bloom.

And yet, April can be fickle. I have known it to enter on a wild, shrieking wind that tore under a sky as darkly tumultuous as a revolution. But though there was ice in the wind, there were other things too. Shreds and tatters of glittering sunlight would suddenly divide the dark clouds, and then could be heard, by the imaginative ear, the distant sound of green armies on the march in a sudden splash of rain. More heavy darkening of the sky with fitful gusts of wind, a wind up to all manner of tricks! A real April fool of a day if ever there was one!

The diary often develops into a sort of meteorological chronicle. Why not? What is nearer to the heart of a countryman and governs his whole life than the weather? Civilized man has counted and numbered the days and months and classified the sea-

sons, but science has never ruled the sunshine or rain, the time for sunset and sunrise, or marked the melting point of ice, or planned the day's work — the times for lighting the lantern for morning and evening chores, or when frost or drought shall walk the prairie, or seeds sprout in the age-old soil, or when birds shall depart and return to fill our world with song.

The puzzled bird-folk, returning, wonder why Spring has delayed so long. It is meagre fare they find, but their time of waiting will be short. Those smart fellows, the sparrows, know the ropes, and see promise of plenty when their indignant benefactor starts preparing the seed grain. Pickings from bin and truck-box will help tide them over the lean interim. Sparrows, not in the same singing class as blackbirds and robins, are inveterate chatterers. They can make conversation out of anything — a bright and lively performance full of what man has solemnly called the "joy of life." There is usually a chief chatterer and several responders after the manner of a minstrel show, and none of the chorus shirks his part.

While the singing birds fill the April dawn with symphonies, the fresh-turned earth and greening grass gladden the eyes, the sun bestows its life-giving warmth, the moon glows in ancient majesty, and the stars wheel slowly westward. The seed is dropped in the furrow and the farmer waits with hope on the benediction of Nature.

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Hobbies

(Continued from page 49)

Salt and pepper shakers

By MRS. FLORENCE HARTELL, Tugaska, Sask.

MY hobby is collecting salt and pepper shakers. When our daughter was going to school, she belonged to the C.G.I.T. and during the summer went camping with the other girls and their leaders. On her return home, she fetched me a set of salt and pepper shakers in the form of eggs, with Regina written on them.

That was the start of my collection many years ago, today I have some very interesting salt and pepper shakers. There is the cute Cactus set, and the Old fashioned Lamps even to glass chimneys, also the Tulips, one is a pretty pastel pink, whilst the other is a dark maroon, then there are the Cucumbers in natural colors, also the Bananas, the Ships are in color also, the Milk Cans are heavy as they are made of brass, the Milk Bottles are made of wood, the little Mexican Man and Woman look very nice in their Sunday best, the Love Birds have their heads entwined, one says "I'm pepper," the other says "I'm salt." Then there's the little red Plastic Boat with its funnels represented by salt and peppers. Oh, yes! I must not forget those lovable little fellows the Dwarfs from Snow White, dear little dopey and Sneezzy, here comes the Little Dutch Boy and Girl, all in blue and white, and what's this one, why that's Two Little Chicks, each nestled in a half shell, and the Totem Poles from B.C. would not like it if they were left out. And here comes the Star Fishes on parade, also along with the Silver Cockatoos comes a pair of Rugby Balls, which came

from Washington just this Christmas. I'd like you to see the Humpty Dumpty eggs; they sit on a china wall, and have black ties and high collars, also black pants and black shoes, but unlike the story, the one egg never broke to pieces "so it could not be put together again". It just has a white top as if it was a cooked egg with just a trace of broken shell at side, like when you take the top off a cooked egg.

Oh dear, I've forgotten all about Mr. Planter Peanut standing on one leg, looking so dapper in his high hat, monocle in eye and cane in hand. Yes, and there is the Mallet set and the Wooden Barrels, the Rosy Apples and — but here, I think I had better stop as there are too many more to mention. I don't expect to do anything great with my collection of salt and pepper shakers, but I do want to prove that living on a farm does not prevent a farm housewife from having a little hobby of her own, even tho' she is a mother also. I know. We raised three "farmers" and two "nurses."

□ □ □

I have a hobby!

By ELSIE MARIE, Manyberries, Alta.

I too have a hobby and in choosing it I wanted to be able to say it was of some use to some one, and not only a complete waste of money such as collecting salt and pepper shakers or stamps. These are fine hobbies but I cannot help but feel that in our day and age we have more important things to do in our spare time. With millions of people starving and freezing to death while we here live in a semi-paradise I have in my spare time from farm chores, gathered the clothes no longer wearable in our family and sat and thought up ways to make them

wearable again for someone of different dimensions over there.

It is surprising too, how much fun it is to sew on buttons; change the style a bit to hide the hole junior tore on the fence last summer; and in some cases turning the garment inside out to add new life after days of Alberta sun. I obtained buttons that had been used as samples in a well known store; slightly faded from the color they originally prided, but nevertheless of such a nature that they added life galore to the otherwise drab garments.

Not only old clothes but new are acceptable when sent overseas, so I use scraps left after completing a dress or skirt for myself to fashion a tiny pleated skirt or blouse, and then dig up the letters from relatives in the old country to see if any of them have children of the age the said garment might be of use to. If there be none I see that the garment reaches a local drive, but I must admit this does not happen often.

When I have several pounds of clothing to send to someone, I search the most recent letters for hints as to what they would like to have and cannot obtain there. Sometimes a child mentions never having tasted candy, or grandma writes about the coffee situation, (this for a Scandianavian has been quite drastic lately), or aunt Kaisa wants a bit of thread to patch with. It is a lot of fun to put together a parcel, wrapping it well, and wishing it God speed as it begins its journey across the sea. I find this the best hobby ever, especially when the letter of thanks arrives and I hear to what use the articles have been put, and sometimes even receiving a snap showing the proud owner of the shirt Olavi outgrew last summer. It gives new life to an evening of patching and mending as farm life marches on.

Favorite stitchery



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Selected RECIPES

BAKED OMELET

6 egg yolks
6 egg whites
6 tablespoons water
½ teaspoon salt
Pepper

Beat yolks slightly. Beat whites until stiff, but not dry. Add water, salt and pepper to yolks and beat well. Fold yolks into whites. Turn into greased casserole. Set in a pan of hot water and oven-poach in a moderately slow oven, 325° F., until well puffed and brown—about 15 to 20 minutes. Serve from the casserole. Yield: Six servings.

PEANUT BUTTER MUFFINS

2 sifted all-purpose flour
or 2¼ cups sifted pastry flour
4 teaspoons baking powder
3 tablespoons sugar
1 teaspoon salt
1 egg
½ cup peanut butter
2/3 cup milk
½ cup water

1 tablespoon shortening, melted
Mix and sift flour, baking powder, sugar and salt. Beat egg until light then add peanut butter, milk, water and melted shortening. Add liquid to flour mixture all at once, stirring only enough to combine. Fill greased muffin tins 2/3 full and bake in a hot oven, 400° F., for 20 minutes. Yield: 12 muffins.

Variations: To make a delicious sweet muffin to serve for tea or supper, fill muffin tins 1/3 full with the above mixture. Add ½ teaspoon jam or jelly to each muffin, then add more batter until muffin tins are 2/3 full.

CREAM PUFF PIE

¼ cup shortening
½ cup boiling water
¼ teaspoon salt
½ cup sifted all-purpose flour
2 eggs

Put shortening, water and salt in a saucepan and heat until shortening is melted. Add flour, stirring vigorously until it leaves the sides of the pan and forms a ball. Remove from heat and cool slightly. Add unbeaten eggs, one at a time, beating thoroughly after each addition. Mixture should be stiff. Spread evenly on an ungreased pie plate and bake in a hot oven, 400° F., and continue baking for 25 minutes. Cool, slit through and remove top. Fill with any desired cream or fruit filling. Replace top and garnish with whipped cream and bits of green cherries. Yield: Six servings.

POTATO CANDY

¾ cup hot, freshly mashed, baked potato
4½ cups icing sugar
1 teaspoon almond extract
3 tablespoons cinnamon

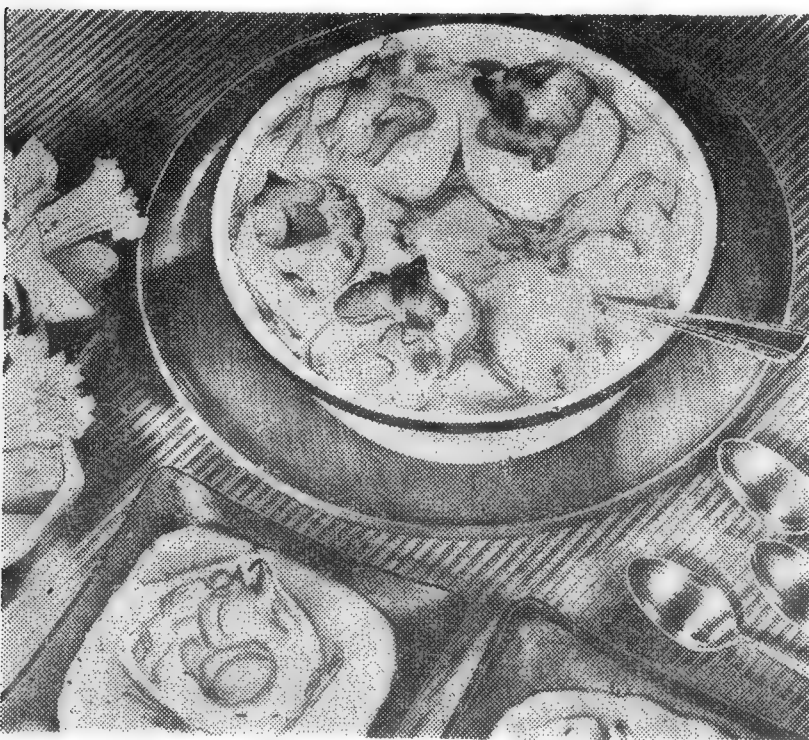
Have potato smoothly mashed. Add icing sugar, a little at a time, until the mixture is stiff enough to knead. Add almond extract, then knead in the remainder of the sugar. Form into small balls resembling potatoes, roll in cinnamon. Yield: 40 small potatoes.

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Baby Brush-Off

A child's milk teeth or "baby teeth" are very important. If they are improperly cared for, the permanent teeth may come in crooked and uneven. Make sure your youngster cleans his teeth regularly.

ORANGE MERINGUE PUDDING



By L. BELL

A FLUFFY meringue topping gives this easy-to-make pudding a springlike air. To make, prepare a package of vanilla pudding mix according to the directions on the package. Cool. Fold in four oranges, peeled and sliced. Pour into a small porcelain enameled pudding pan. Top with puffs of meringue made of beating two egg whites until stiff and folding in three tablespoons of sugar. Bake in slow oven (325° F.) for about 15 minutes until delicately browned. Makes 5 servings.



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MAGIC BIRTHDAY CAKE

3 cups sifted pastry flour	6 tbsps. butter or margarine
or 2½ cups sifted hard-wheat flour	1½ cups granulated sugar
4 tbsps. Magic Baking Powder	4 eggs, well beaten
¾ tsp. salt	½ tps. grated orange rind
6 tbsps. shortening	1½ cups milk
	1½ tps. vanilla

Sift flour, Magic Baking Powder and salt together 3 times. Cream shortening and butter or margarine together; gradually blend in sugar. Add beaten eggs, part at a time, beating well after each addition; mix in orange rind. Measure milk and add vanilla. Add flour mixture to creamed mixture about a quarter at a time, alternating with three additions of milk and combining lightly after each addition. Turn into one 7" and one 9" round cake pan, 1½" deep, which have been greased and lined on the bottom with greased paper—if pans are shallow, line sides with a "collar" of greased heavy paper. Bake in moderate oven, 350°, 35 to 45 minutes, depending upon size of cake. Cover and decorate cold cake with butter icing—tinted to match candles, for filling and lower layer.



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White Leghorn R.O.P. Sired	\$9.25	18.50	36.00	\$4.75	9.50	18.00
New Hampshire R.O.P. Sired	8.75	17.50	34.00	5.00	10.00	19.00
New Hampshire Approved Sired	8.25	16.50	32.00	4.50	9.00	17.00
Barred Rocks R.O.P. Sired	9.00	18.00	35.00	5.25	10.50	20.00

"In Sexed Pullets, 96% Accuracy Guaranteed"

that Live and Grow.

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BABY CHICKS

FOR SALE

MEDICAL

PERSONAL

FOR ORDER TODAY FROM COLES 1949

COLES QUALITY CHICKS

ITS QUALITY THAT COUNTS

R.O.P. Sired New Hampshires, White Leghorns and Black Australorps. Individual Pedigreed R.O.P. Sired Cross Breeds: Austra-Whites and Leghorn-Hampshires. Hatchery Approved Light Sussex, Barred Rocks and White Plymouth Rocks.

BROAD BREASTED BRONZE TURKEY POULTS.

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CREAM SEPARATORS — Special Offer—2 rubber rings and complete set of brushes, \$1.00 postpaid. Send your bowl complete, the spindle, neck bearing and spring underneath the bowl for re-tinning, re-balancing and overhauling to: Petrie Separator Service, 373 Bowman Avenue, Winnipeg, Manitoba.

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REDUCE FARM MACHINERY REPAIR COSTS — Guaranteed New Tractor parts at wholesale prices. Shipped duty free from stocks in St. Paul or Minn., North Dakota. Write for Free catalog. Largest independent parts distributors. Tractor Supply, Catalog Department B, Chicago 14, Illinois.

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Diesel, Nat. Gas

MACHINERY SUPPLIES

New and Used

WILKINSON & MCLEAN Limited

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ATTENTION, FARMERS! — We now have more new and used tractor parts than ever. And best of all, when you buy parts from Irving's, it is not necessary to send American funds. You can send Canadian funds in any amount to buy tractor parts from us, and you don't need approval. Send your personal check, a bank draft, or 3 postal money order made payable to Irving's Tractor Lug Company at North Portal, Sask., Canada. No duty on tractor parts. Free clearance through customs. Irving's Tractor Lug Co., Portal, North Dakota.

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CAMROSE DISTRICT, ALBERTA — Ideal ranch, 2,000 acres. Three improved farms, 400 acres, 646 acres, 946 acres. Enquire Mr. Edwards, 10126 - 100 Street, Edmonton. Save commissions.

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SCOTCH, GIN, RUM, RYE, BRANDY and liqueur flavors. Send \$1 for two bottles, postpaid. **FLAVOR PRODUCTS**, Dept. F, 52 Albert St., Winnipeg.

WE HAVE FOR SALE A FEW BRAND new farm tractors, also some exceptionally good used ones, a few of which have only worked a few hours. Don't be caught without the tractor you require for this Spring. Act at once. **Bateman Farm Machinery Company, Limited**, Ontario's Largest Farm Machinery Dealers, 11 Molra Street West, Belleville, Ontario.

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Without a doubt the most modern and most well maintained 8-suite city block in the west. A gilt-edge investment with return of 7½% on prewar rentals.

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Many women wanted—Learn Hairdressing — Splendid opportunity — Better paying positions — Pleasant work — Catalogue free — Canada's greatest system. Write: Marvel Hairdressing Schools, 326A - 8th Ave. W., Calgary, or 10244 - 101st St., Edmonton, Alta.

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"HOW TO BREAK AND TRAIN HORSES" — A book every farmer and horseman should have. It is free; no obligation. Simply address Beery School of Horsemanship, Dept. 644, Pleasant Hill, Ohio.

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RED POLLS

THE IDEAL DUAL-PURPOSE CATTLE — Economical to feed—Milk, Butter and Beef Always — All Red — All Hornless — All Business. For further free particulars apply, Canadian Red Poll Association, Box 425 Humboldt, Sask.

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FOR SALE — On a ranch in Washington, Corriedale and English Romney Rams excellent for crossing on range ewes. No commission sale. Write A. T. Soderstrom, 409 E. 5th St., Los Angeles 13, Calif.

SHEEPMEN protect your sheep from coyotes and vicious dogs, by using KIOTE-CHASSR, the amazing new discovery, one gallon will protect 100 sheep up to 6 months. Order now for Spring delivery. Price \$5.00 per gallon F.O.B. Wilcox, 2% Ed. Tax Sask. residents. Bosco Sales Agency, Box 167, Wilcox, Sask.

LIVESTOCK REMEDIES

COWS AND MARES SLOW TO SETTLE? Use "VIX" (Stiks-Em) before service. Proven Treatment. Satisfaction or Money Back. 85c for one, four for \$2.35. Postpaid. Farmers' Supply Company, 506L, Carman, Man.

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Just insert Penicillin "Boo-Jees" into the teat cistern. Get this Ayerst Product from your druggist or veterinarian. Write P.O. BOX 6115, MONTREAL, for free literature.

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SAVE WITH SAFETY FOR 35 YEARS we have shipped, direct to consumer, selected Pacific Coast lumber, wall and roof shingles, sash, doors, frames, quality guaranteed; thousands of satisfied customers. Write for our delivered lumber price list and illustrated millwork catalogue. Farmers Mutual Lumber Co. Ltd., Sun Building, Vancouver, B.C.

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RUPTURE RELIEF

Write today for details. British Appliance recommended by Doctors. Free Trial Offer. So comfortable you will not know you have it on. Holds the hernia firmly. In many cases the ruptured tissues reunite and rupture conquered forever. Beasley's, Dept. CL57, 60 Front St. West, Toronto.

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FOREIGN STAMPS on approval. Sets and singles; mint and used. H. Caul Wilson, Dept. FR, 4531 - 46th Street, Red Deer, Alberta.

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BLANKETS, CLOTH YARNS, batts, etc., made from your own sheep's wool, or if you have old woollens we will remake them into blankets. Write Brandon Woolen Mills Co., Ltd., Brandon, Man.

"BUILD A STRAWBERRY PYRAMID" — In space 9 x 9 feet you can grow 100 plants the pyramid way. Estimated yield for summer, 25 gallons. Instructions for building, planting, 25 cents. Clara Kelsey, Box 14, Edmonton, Alta.

SEND 25c FOR LEAFLET telling how to grow Strawberries in a Barrel. Clara Kelsey, Box 14, Edmonton, Alta.

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TREES, TREE FRUITS, SHRUBS — Small fruits and perennials. W. D. Moore, Biggar, Sask.

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RUPTURE TROUBLES ENDED

Positive relief and comfort. Advanced method. No elastic, no understrap, no steel. Write Smith Manufacturing Co., Dept. M, Preston, Ontario.

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LONELY? JOIN CANADA'S GREATEST CLUB. Established 1924. Members' most everywhere. Many with means, seeking congenial mates. Proven results. Free particulars in plain, sealed envelope. C. C. Club, Box 128, Calgary, Alta.

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(R. & S.) RHEUMATIC AND STOMACH POWDER — Hundreds of grateful letters received from many who have tried this reliable herbal remedy. Mr. Gangeun, 10023 - 111 St., Edmonton, says: "I suffered with rheumatics in my legs, arms and neck, and poor elimination for years. I was advised by a friend to try (R. & S.) Powder. I did so and after taking the powder for several months, I have been grateful ever since. (R. & S.) Powder is sold at most Drug Stores. Prices: 2 weeks, \$1.50; 1 month, \$3.00; 2 months, \$5.00. If your druggist does not handle "R. & S." Powder, you may order it direct from the manufacturer, J. C. McIntyre, 10022 - 102 Street, Edmonton.

ASTROLOGY — Remarkable Horoscope, Health, prospects, events, money outlook, love, friendship, etc. Send 10 cents (coin), stamp and birth date for amazing scientific forecast. Newton Vale, 106 (F.R.) Adelaide St. West, Toronto.

TESTRONES FOR MEN — Special Hormones created and manufactured in the Laboratories of the British Glandular Products Ltd., of London, Eng. Confidentially, they are the finest regenerative medium for the disabilities of middle and old age. Unavailable during the war, they can now be purchased in Canada. They are not a stimulant, but a quick restorer of youthful vigor and elasticity. Single bottle, \$3.50. Full course, three bottles, \$10.00. No C.O.D.'s. All orders to Glandular Health Products, 81 Union Building, Calgary, Alta.

YOUR PERSONAL ASTROLOGER will study your Birth Chart and prepare Forecast for you individually. My readings are scientific and accurate. Write and receive my explanatory letter. Mrs. Eva Winfield, 859, Thurlow, Ste. 206, Vancouver, B.C.

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SENSATIONAL — This ad. is valuable. Any 8-exposure roll developed and a "Double-size deckle-edge" enlargement from each negative all for 29c. Send this ad. with roll and get special price. Regular price 35c. Only one to a customer. Photo Research Lab., Department E, Drawer 370, Regina, Sask.

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6 or 8-EXPOSURE ROLLS DEVELOPED and printed, 30c, postage paid. Reprints 4c each, plus new library enlargement coupon free with each roll or 8 reprints. Minimum order 30c. Careful work, wider margins, deckle edge and fast service. Cut Rate Photo Service, Department E, Box 236, Regina, Sask.

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SEED FOR SALE

FOR SALE — First generation Marquis and Regent wheat and Newal barley. P. J. Rock & Son, Drumheller, Alta.

LARAIN OATS

This variety won eight out of first ten awards at Provincial Seed Fair. Early maturing, strong straw. Reg. No. 1, \$2 per bus. Reg. No. 2, \$1.75 Reg. No. 3, \$1.50. Certified \$1.40. Commercial No. 1, \$1.15. Sealed in three-bushel sacks. Commercial No. 1, in bulk, \$1.00. Also Olli Barley, Reg. No. 1, \$2.50. Reg. No. 2, \$2.30. Sealed in two-bushel sacks. **RIVERBEND FARM**, Benalto, Alberta

MONTCALM BARLEY — Winner Alberta Seed Section of National Barley Contest. Registered No. 1 and No. 2 seed, \$2.50 per bushel sacks included. Sealed in 2-bushel sacks. D. R. Carlyle, Blackfalds, Alberta.

SONG WRITERS

IF YOU WRITE WORDS for songs but cannot write music we can help you. Details free. Write today. Five Star Music Masters, 545 Beacon Building, Boston, Mass.

SONG WRITERS — Send your best poem for immediate consideration and FREE Rhyming Dictionary. **RICHARD BROTHERS** (Music Composers), 18 Woods Building, Chicago.

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STAMMERING CORRECTED — For free, helpful booklet write William Dennison, 543-R, Jarvis St., Toronto.

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RAISE TURKEYS THE NEW WAY — Write for free information explaining how to make up to \$3,000.00 in your own backyard. Address **NATIONAL TURKEY INSTITUTE**, Dept. 182, Columbus, Kansas.

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DON'T FEED SPARROWS — Build your own trap that will catch thousands. Free literature. Write The Farmers' Supply Co., 506, Carman, Man.

TANNERS

TANNERS, Furriers, Fur Dressers — Furs stored and repaired, robe and leather tanning. Taxidermy. The Briggs Tannery, Offices and Factory, Burnsland, Calgary, Alberta. Phone E 5430.

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THE MAGPIE MENACE

A new book about Western Canada's worst Bird Pest, with illustrated instructions for their Control by Trapping, Shooting and Baiting.

50c per copy, postpaid.

KERRY WOOD,

Box 122

RED DEER, ALBERTA

FACTS WORTH KNOWING ABOUT 2,4-D



To get the most satisfactory results with 2,4-D, the farmer should know (1) how, when and where to use it, and (2) how to choose the brand which will give him the most effective and economical weed kill. Properly used, 2,4-D results in increased yields, lower farming costs, bigger profits. Here are some important facts worth knowing about 2,4-D.

How to compare different 2,4-D products

Look for the weight of 2,4-D Acid (the killing ingredient) the brand contains. For your protection, the labels on all brands of 2,4-D show the number of ounces or pounds of 2,4-D Acid per gallon. Remember—the true comparative value of 2,4-D brands is based on the cost per ounce or pound of 2,4-D Acid in the formulation—not the cost per gallon. Buy by Acid content.

What weeds will 2,4-D kill in growing crops?

That depends on the weed and stage of growth. HERBATE 2,4-D kills highly sensi-

tive weeds at low concentration. Less sensitive weeds like cocklebur and ragweed require a higher concentration. Russian thistle, Canada thistle, field bindweed, etc., may be controlled at high concentration, though the roots may not be killed. Even when perennial weeds are not killed, those that are stunted offer less competition with crop plants for moisture and food, and are more susceptible to winter-kill.

When should 2,4-D be applied?

Apply 2,4-D to wheat, oats and barley after plants are 6 inches high (or about 3 weeks after emergence). Apply to flax as soon as weed growth warrants, provided the flax plants have formed 4 or 5 leaves. Do not apply 2,4-D in flax after the early bud stage, or it may cause severe damage.

HOW WEEDS COST YOU MONEY

- Weeds reduce crop yields by robbing soil of available plant food and using up valuable moisture.
- Weeds crowd out grain and other crops, resulting in a poor stand.
- Weeds increase the cost of farming operations—plowing, harvesting, cleaning, etc.
- Weeds cause direct money losses due to dockage for high weed-seed content of grain.
- Weeds cause extra wear and tear on farm machinery, particularly combines, binders and threshers.
- Weeds attract injurious insects and harbour certain fungous diseases. Rot of small grain may pass the winter on several kinds of common weeds.
- Heavy weed infestation reduces the land value of your farm.

Compare the 2,4-D Acid content of "HERBATE" with other brands

That's the only sound, practical way to compare the value of different brands of 2,4-D. The 2,4-D Acid content is plainly stated on

the label. Read it carefully. Compare HERBATE'S Acid content (in ounces or pounds per gallon) with that of other brands.

Three Formulations for low or high-volume spraying

HERBATE Ester. Contains 64 oz. of 2,4-D Acid per gallon.

HERBATE Amine. Contains 80 oz. of 2,4-D Acid per gallon.

HERBATE P-70 (Sodium Salt). Contains 11.2 oz. of 2,4-D Acid per pound.

HERBATE saves crops—saves labour

HERBATE 2,4-D is a crop-saver for grain and flax. HERBATE sprays are the low-cost, labour-saving way to control the weeds which rob growing crops of moisture and food. HERBATE 2,4-D kills sensitive weeds outright... keeps even tough perennial weeds under control.

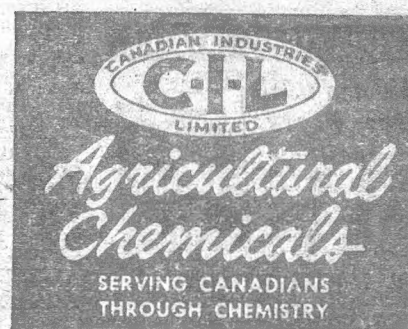
HERBATE users report yield increases as high as 30%, due to killing out heavy weed infestation. Cleaner crops also mean lower harvesting and marketing costs.

A PRODUCT OF CANADA'S LARGEST MANUFACTURER OF CHEMICALS

HERBATE 2,4-D is a product of the Agricultural Chemicals Division of **CANADIAN INDUSTRIES LIMITED**, established leaders in modern pest control products. Whenever possible, it will pay you to discuss your pest control problems—whether weeds, insects or plant diseases—with one of the trained C-I-L field representatives.

FOR EFFECTIVE, LOW-COST WEED CONTROL IN GROWING CROPS

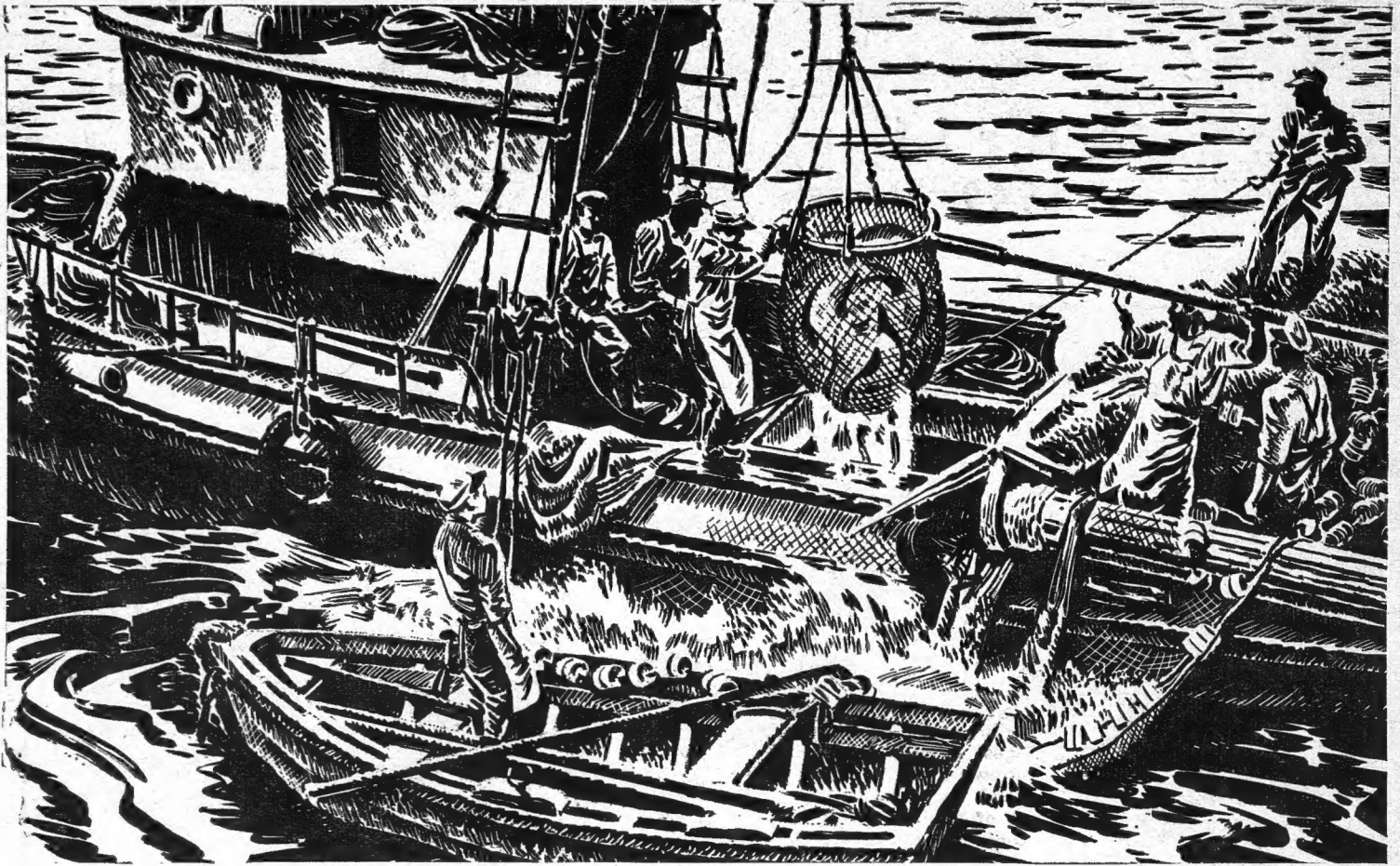
ASK YOUR
DEALER FOR
HERBATE 2,4-D



CANADIAN INDUSTRIES LIMITED
Agricultural Chemicals Division
WINNIPEG

Regina Calgary Edmonton Vancouver
Halifax Montreal Toronto Chatham, Ont.

CANADA PRODUCES SOME OF THE WORLD'S FINEST SALMON



When you taste salmon, exceptionally delicious and delicately flavoured, chances are it comes from the silver hordes spawned in the mighty Fraser and other mountain rivers of Canada's Pacific Coast.

Why Seagram's sells Canada first

This is an adaptation of one of a series of advertisements designed by The House of Seagram to promote the prestige of Canada and help sell Canadian products to the markets of the world.

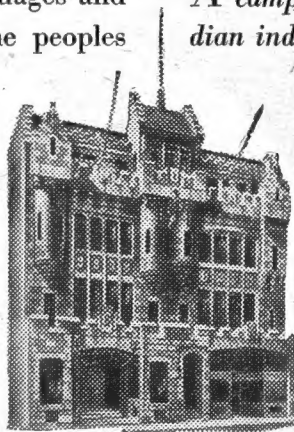
The campaign is appearing in magazines and newspapers published in various languages and circulated throughout the world. The peoples of many lands are told about the quality of Canadian products and see Canadian scenes illustrating these products.

The advertisements are in keeping with the belief of The House of Seagram that the future of each business enterprise in Canada is inextricably bound up in the future

of Canada itself; and that it is in the interest of every Canadian manufacturer to help the sale of *all* Canadian products in foreign markets.



A campaign, such as this not only helps Canadian industries but also puts money in the pocket of every Canadian citizen. One dollar of every three we earn comes to us as a result of foreign trade. The more we can sell abroad the more prosperous we will be at home. It is with this objective that these advertisements are being produced and published throughout the world.



The House of Seagram